

PRS-500

SERVICE MANUAL

US Model

Ver. 1.0 2006.09



SPECIFICATIONS

Power source

Built-in rechargeable battery: DC IN 3.7 V
AC power adapter: DC IN 5.2 V

Battery life (continuous playback)

Approx. 7500 pages (when the battery is fully charged)

User available capacity

Approx. 64MB
Available storage capacity of Sony Reader may vary.

Operating temperature

5 to 35 °C (41 to 95 °F)

Dimensions (w/h/d)

Approx. 6.9 x 4.9 x 0.5 inches
(maximum, without soft cover)

Mass

Approx. 9 oz (without soft cover)

Supplied accessories

AC Adaptor (1)
Power Cord (1)
USB Connection Cord (1)
Application Soft (1)
Instruction (1)
Warranty Card

Optional accessories

Cradle for Reader BCR-RU1

Design and specifications are subject to change without notice.

PORTABLE READER SYSTEM

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UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)



: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350 °C.

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

• Microsoft, Windows, Windows NT and Windows Media are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

• Adobe and Adobe Reader are trademarks or registered trademarks of Adobe Systems Incorporated in the United States and/or other countries.

• MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

SECTION 1 SERVICING NOTE

NOTES WHEN REPLACING THE INK INDICATOR ELEMENT ASSY, MAIN BOARD AND FLASH ROM (IC1611)

When the INK INDICATOR ELEMENT ASSY, MAIN board, or FLASH ROM (IC1611) is replaced, you need to change the LUT.

Rewriting the LUT

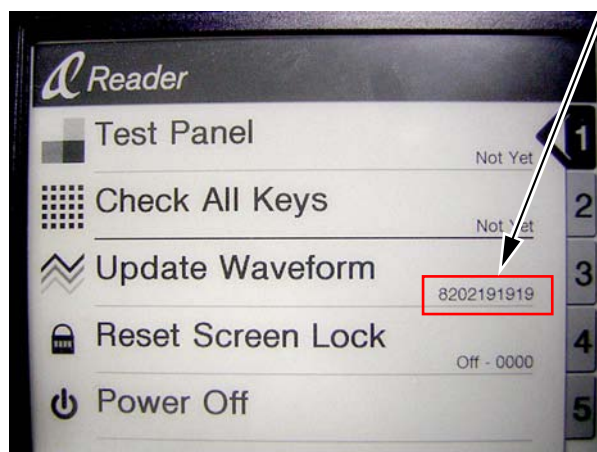
The LUT is exclusive for each lot number of the INK INDICATOR ELEMENT ASSY. Therefore, when replacing the MAIN board, display panel, or FLASH ROM, you need to rewrite the LUT. However, rewriting is not required if the lot number is the same.

Location where the LUT is stored

- IC1611

How to check the version of the stored LUT

- When you insert the Memory Stick in which the exclusive file is stored, the Test Mode is established. Check the current LUT version displayed at the right side of Update Waveform as in the screen below. The LUT version is “8202191919” in this example.



How to check the lot number of the display panel

- The lot number is written on the label on the flexible card wire.
The lot number is “XBL15” in the picture below.



How to change the LUT

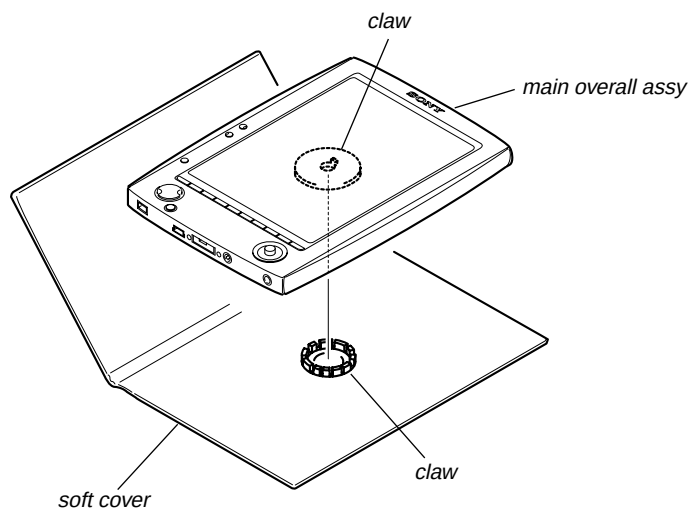
- Copy the LUT file you want to update to the folder under “/Sony Reader/software” in the Memory Stick exclusive for the Test Mode, and then change the name to “lut.bin”. Execute Test Mode No.3 “Update Waveform”. The LUT will be updated in about 10 seconds, and the LUT version display will also change.
- For the LUT version and the LUT file corresponding to the lot number of the panel, refer to Technical News.

NOTE:

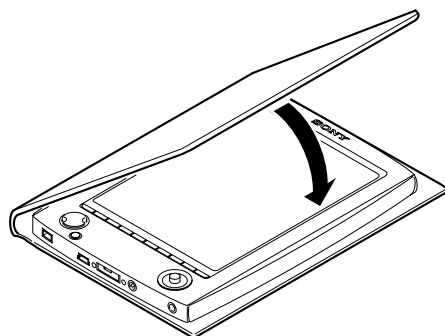
- To create the Memory Stick exclusive for the Test Mode, refer to TEST MODE (Page 11).
- For the VCOM adjustment value of RV601 for each lot, refer to Electrical Adjustment (Page 12).

NOTE OF HOW TO SET THE SOFT COVER

Place the main overall assy on the soft cover by aligning the position of the claws.

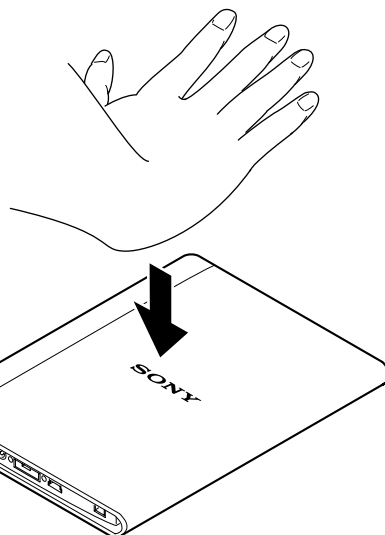


Close the soft cover.



Press on the back side of the soft cover (the side with the SONY logo) to lock the claws.

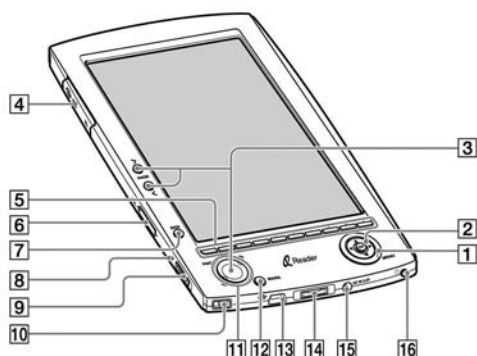
** Do not press on the front side of the soft cover.
Doing so may the LCD screen.*



SECTION 2 GENERAL

This section is extracted
from instruction manual.

Guide to Parts and Controls



Front

1 MENU button

To return to the previous screen or show a menu.

2 5-way control (◀/▲/▼/▶/ENT) button

To select an item or scroll around the screen, press the ENT button left (◀), up (▲), down (▼), or right (▶).

To select an item or apply a setting, press down on the ENT button.

In this manual, the operation of the 5-way control button is explained as follows.

(Example) Press ◀/▲/▼/▶ to select "1984" on the Book list, then press ENT.



3 PAGE (>/<) buttons

To turn the page or proceed/return to the next (>)/previous (<) contents.

4 Media slot

To insert a "Memory Stick" (optional) or SD Memory Card (optional).

5 Number (1 – 9,0) buttons

To select the numbered items on the screen or input numeric values on the Setting menu.

6 VOLUME +/- buttons

To adjust the volume.

7 SIZE button

To zoom in/out a page or picture.

8 Charge indicator

Lights up in red while charging, and goes off when charging is complete.

Lights up in orange when Sony Reader is turned on.

9 POWER switch

To switch on/off Sony Reader.

10 Hole for hand strap

To attach the hand strap.

11 MARK LED

Lights up in blue to confirm creation of a bookmark.

12 MARK button

To create/remove a bookmark.

13 USB connector

To connect the USB cable (supplied).

14 Multi connector

To connect the optional cradle.

15 DC IN jack

To connect the AC power adapter (supplied).

16 (Headphones) jack

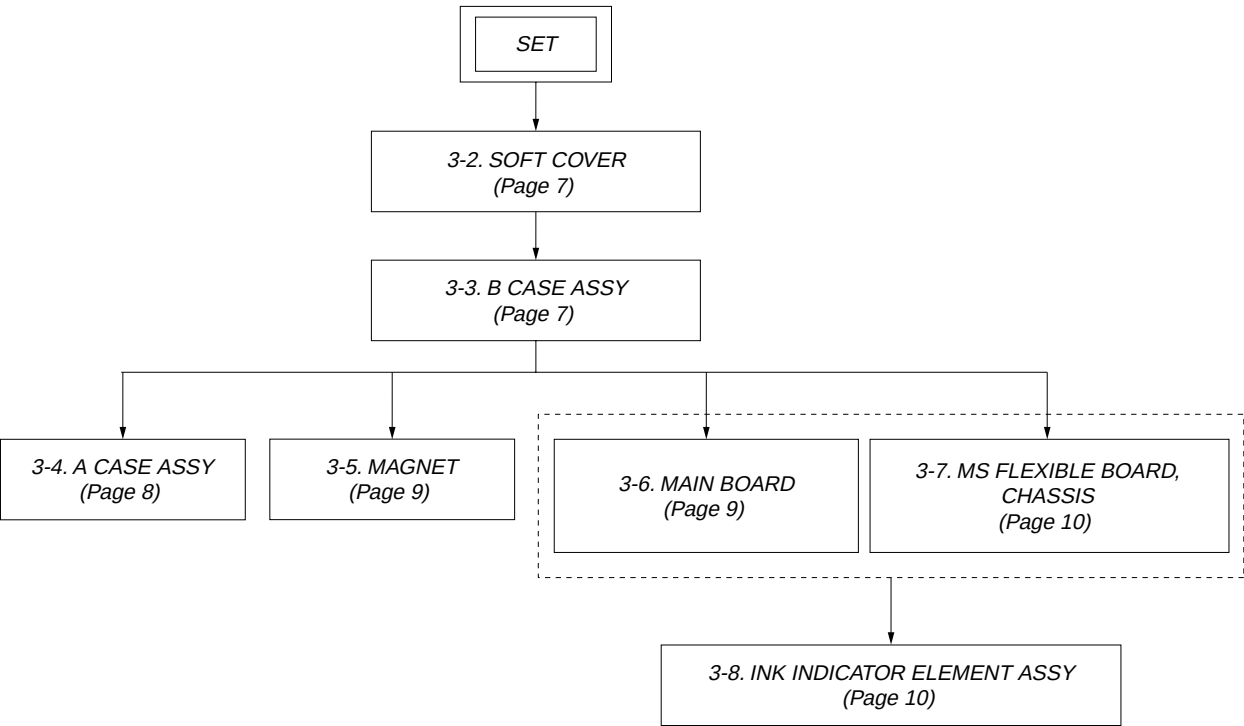
To connect headphones (optional).

SECTION 3
DISASSEMBLY

Note

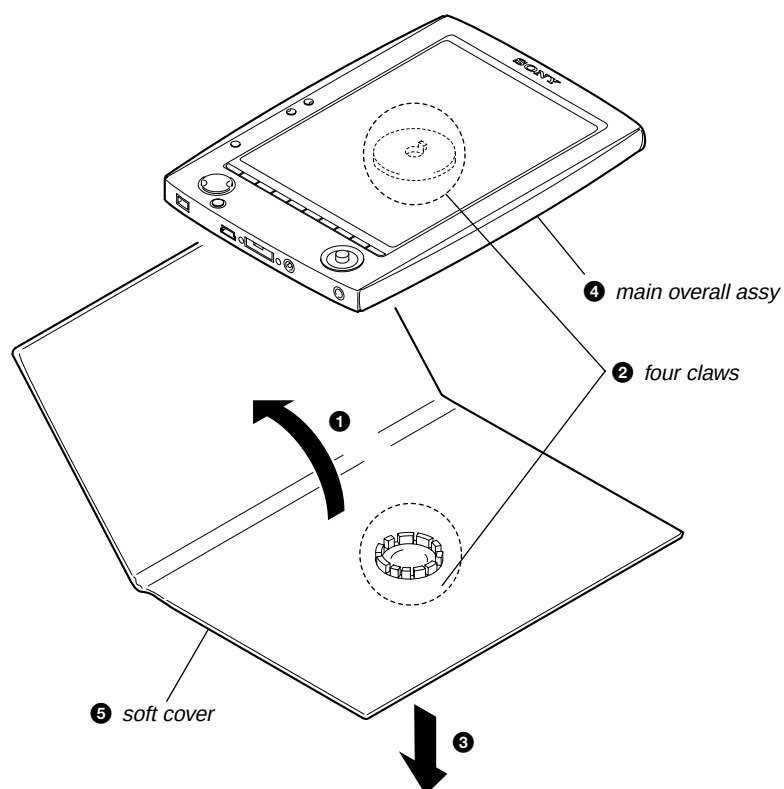
- This set can be disassembled in the order shown below.
- The dotted square with arrow () prompts you to move to the next job when all of the works within the dotted square () are completed.

3-1. DISASSEMBLY FLOW

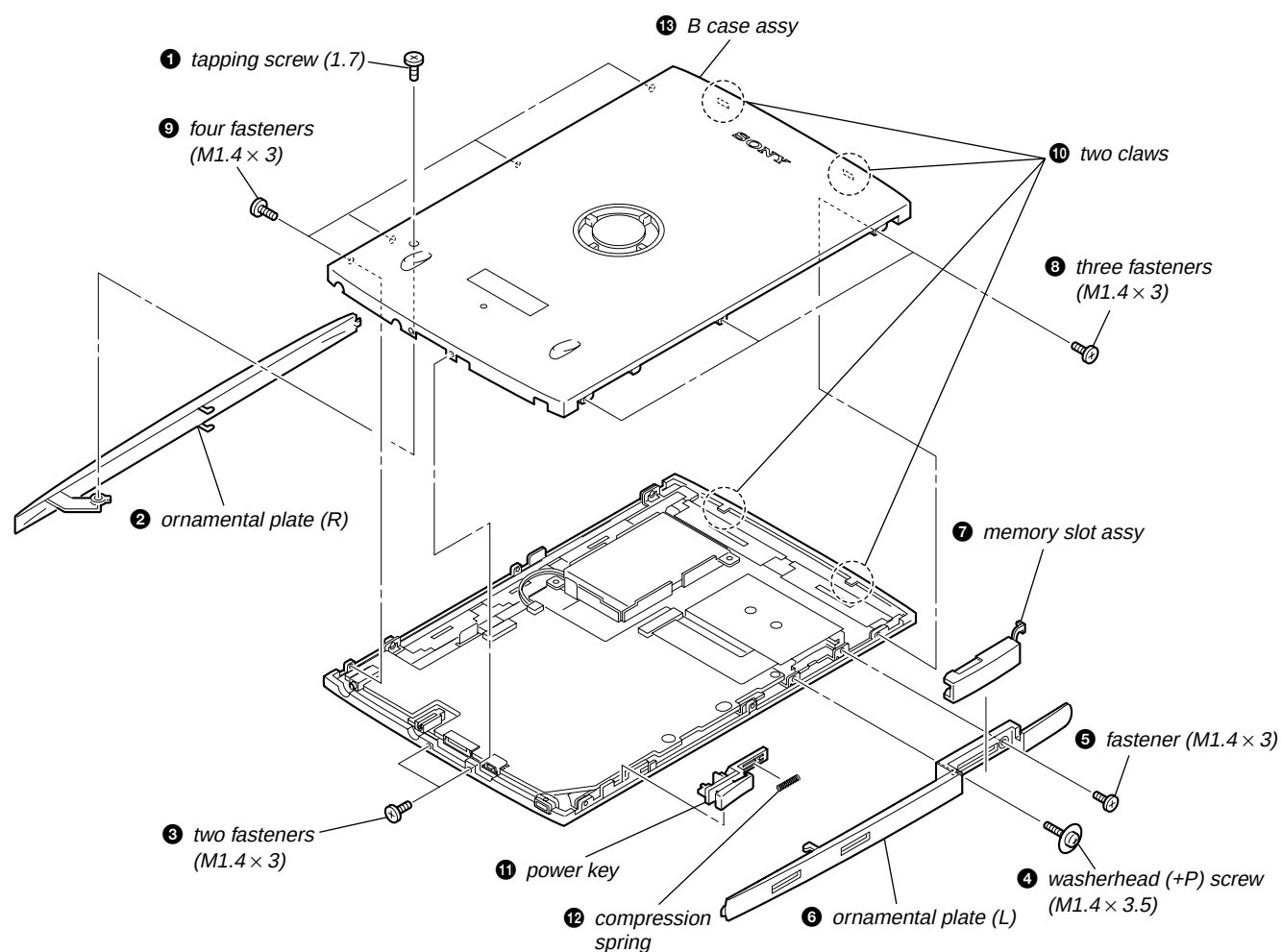


Note: Follow the disassembly procedure in the numerical order given.

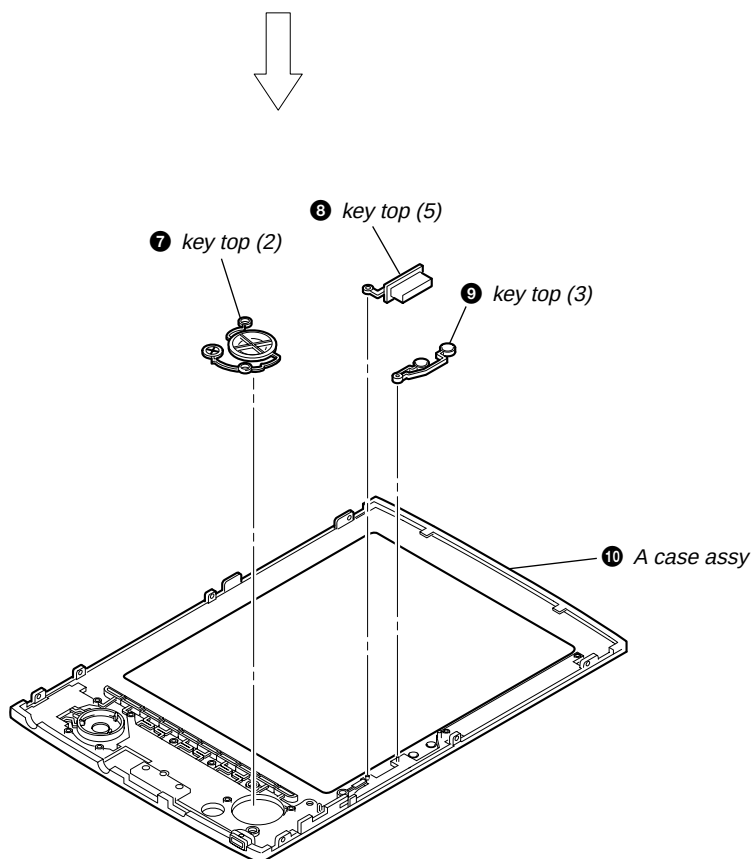
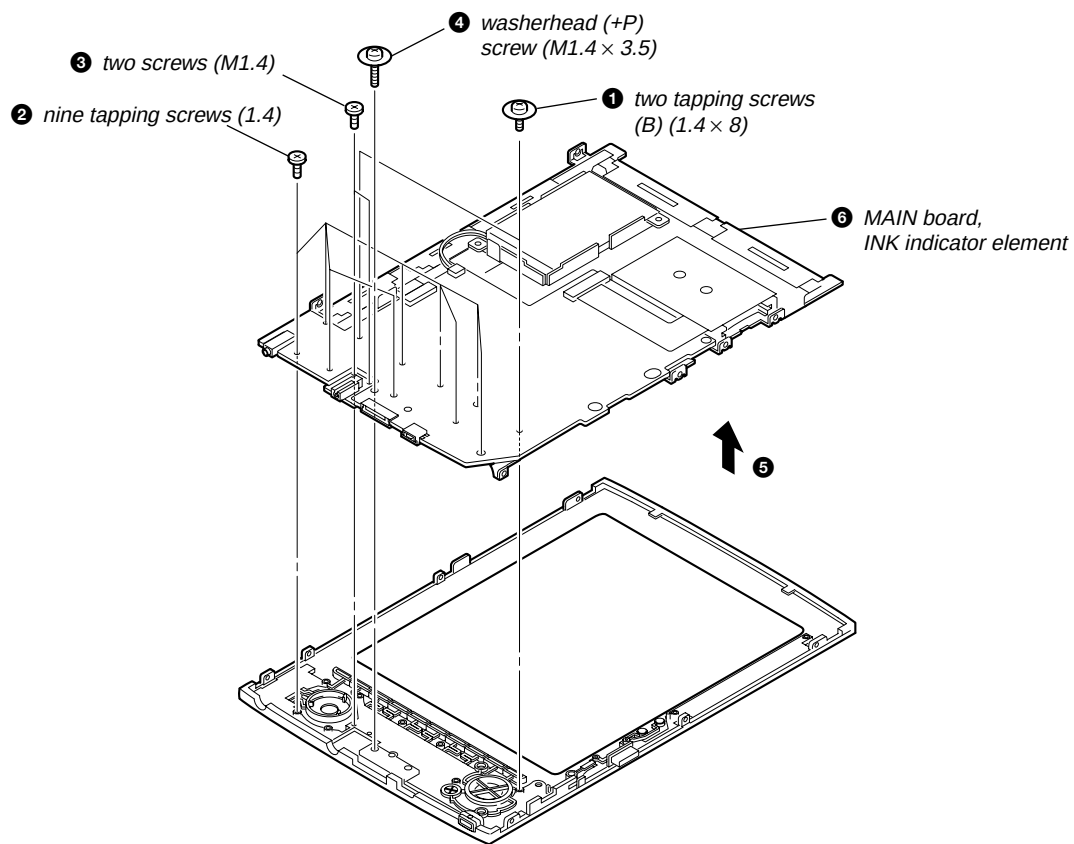
3-2. SOFT COVER



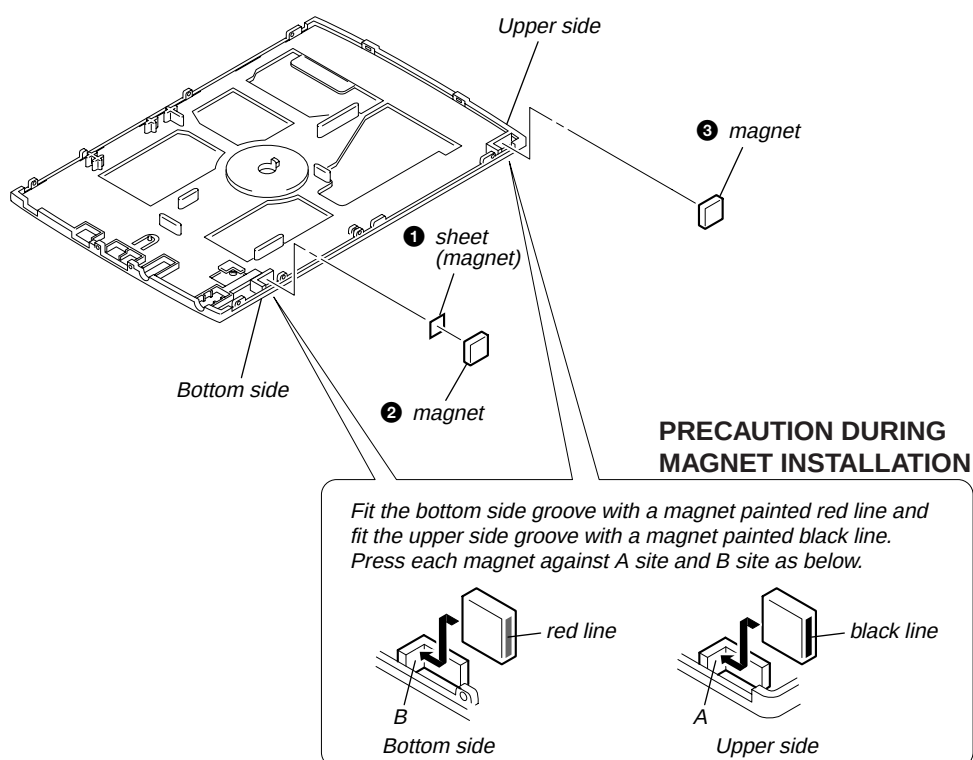
3-3. B CASE ASSY



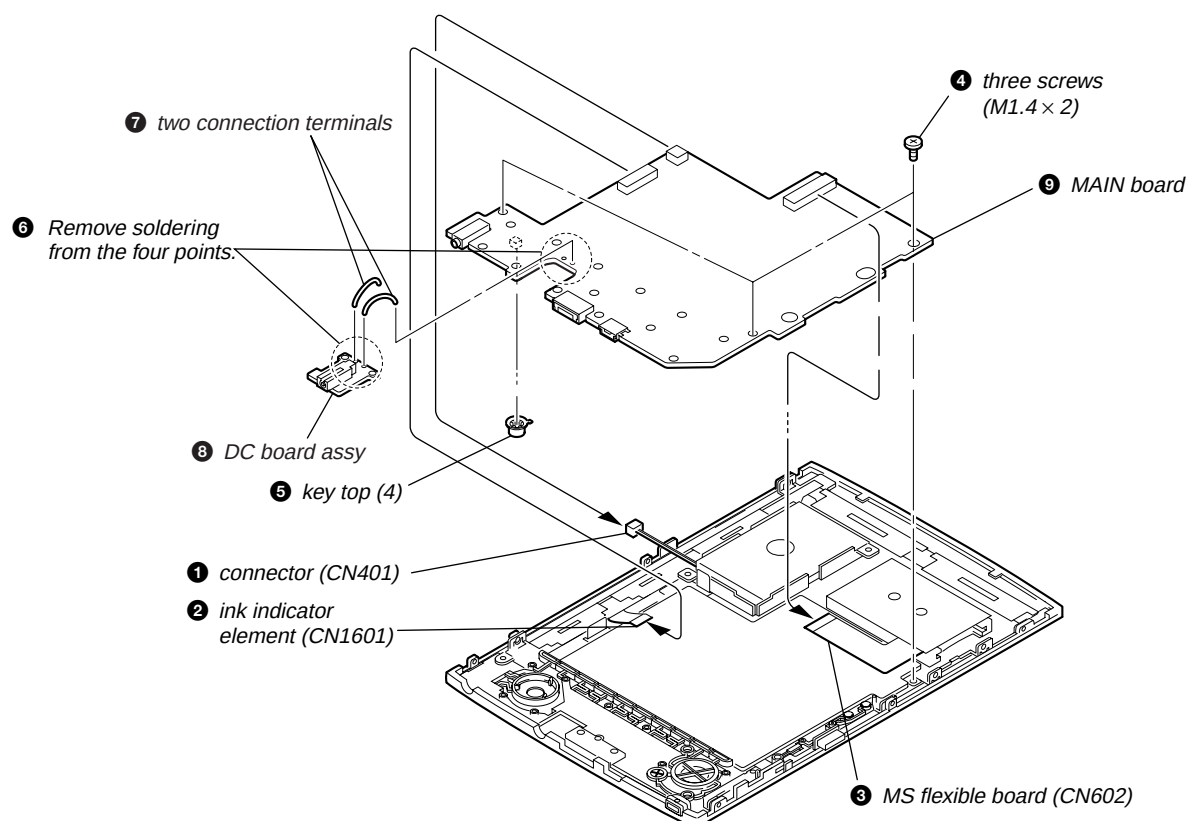
3-4. A CASE ASSY



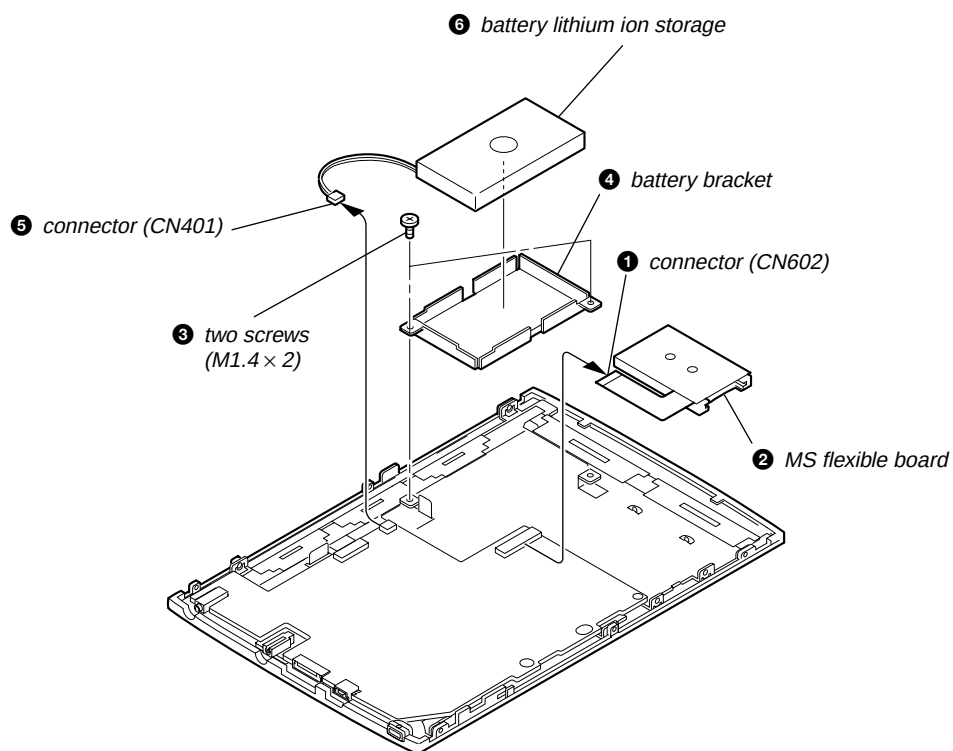
3-5. MAGNET



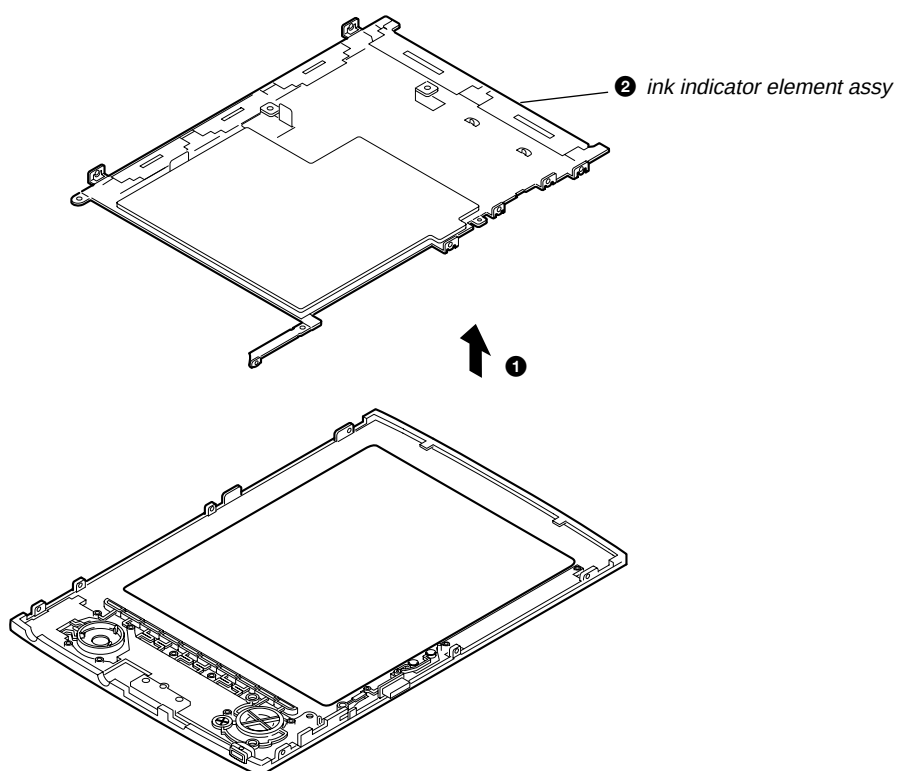
3-6. MAIN BOARD



3-7. MS FLEXIBLE BOARD, CHASSIS



3-8. INK INDICATOR ELEMENT ASSY



SECTION 4 TEST MODE

HOW TO MAKE THE MEMORY STICK FOR TEST MODE USE ONLY

1. Ready for the memory stick.
2. Make the new directly as “/Sony Reader/software” on the memory stick.
3. Download the as follow as the files from internet site, copy to directly.

Download files:
 autorun.xml,
 icon.png,
 key.png,
 lut.bin (If this download file's name is different, change to this name.)

HOW TO ENTER THE TEST MODE

1. Insert the test mode memory stick.
2. After a while, indicate the test mode menu, enter the test mode.

1. Test Panel

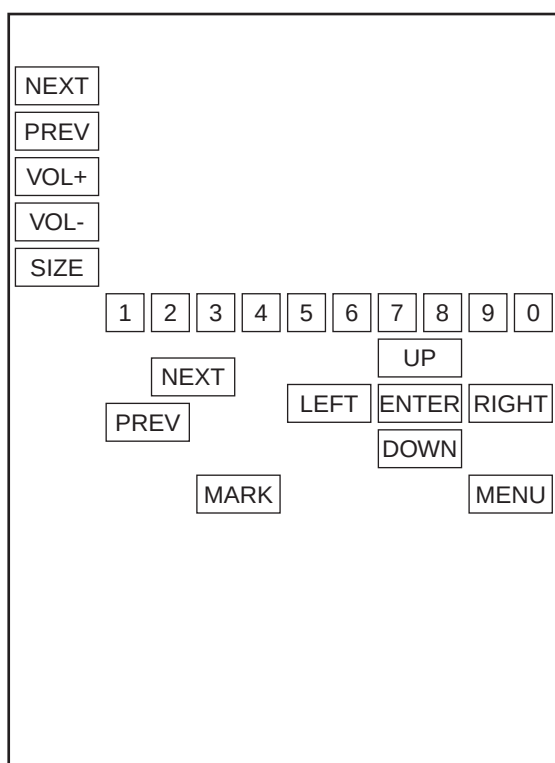
1. While the machine selected tab “Test Panel” in test mode menu, press the **[ENT]** button, or press the **[1]** button.
2. Screen is changed to the Test Panel.
3. The display is changed so bellow with each time of pushing the **[>]** button or **[<]** button of **[PAGE]**.



4. It's back to TEST MODE MENU when the **[MENU]** button.
5. After the end of test, a display of Test Panel on TEST MODE MENU is changed to “Done” from “Not Yet”.

2. Check All Key

1. In the state that a Check All Key tab of TEST MODE MENU is selected, push the **[ENT]** button or **[2]** button.
2. The screen is switched into the Check All Key state.



3. The display invert when each button is pushed, and the display is back to the all button.
4. After the end of test, a display of the right side of Test Panel on TEST MODE MENU is changed to “Done” from “Not Yet”.

3. Update Waveform

In this mode, it is possible to confirm the variation of LUT (Look Up Table) and rewrite. The change of the LUT is required when a INK INDICATOR ELEMENT, MAIN BOARD and FLASH ROM (IC1611) are replaced. However, a INK INDICATOR ELEMENT is different from parameter by each lot number, therefore, rewriting is not required if the lot number is the same. The lot number is written on the label on the flexible board.



1. The current LUT version displayed at the right side of Update Waveform on TEST MODE MENU.
2. In the state that a Update Waveform tab is selected if it is pushed the **[ENT]** button or **[3]** button, it starts rewriting LUT version.

NOTE: It is necessary to match the LUT version to the version in relation to the lot number of the INK INDICATOR ELEMENT. Refer to Technical News about details.

3. After a few minutes (about 10 seconds), the screen display is refreshed, a LUT version display of the right side of Update Waveform on TEST MODE MENU is refreshed.

4. Reset Screen Lock

The screen lock can be compulsorily released.

1. The current state of screen lock and the password are displayed on the right side of Reset Screen Lock of TEST MODE MENU.
2. In the state that the Reset Screen Lock tab of TEST MODE MENU is selected, push the **[ENT]** button or **[4]** button.
3. The display on the right side of Reset Screen Lock is changed to “Off-0000”, so Screen Lock is unlocked.

5. Power Off

1. In the state of a Power Off tab of TEST MODE MENU, push the **[ENT]** button or **[5]** button.
2. After a while, the screen display is changed white, so power is turned off.

SECTION 5 ELECTRICAL ADJUSTMENT

Vcom Voltage Adjustment

Vcom voltage for the display panel varies for each panel. Vcom adjustment is required when replacing a board or panel.

Preparation

Voltage is generated only when the screen is changed, so the adjustment needs to be performed while changing the screen. Use the slideshow function to change the screen sequentially.

1. With the “Settings” tab in the menu selected, press the **[ENT]** button or the **[0]** button.
2. With the “Slideshow” tab selected, press the **[ENT]** button or the **[3]** button.
3. Set “Turn On, Slide Duration 05 seconds”, and press the **[ENT]** button on OK.

Procedure

1. With the “Pictures” tab in the menu selected, press the **[ENT]** button or the **[9]** button.
2. Specify a desired screen, and press the **[ENT]** button to check that the slideshow starts.
3. Observe the negative side of C1666 on an oscilloscope (refer to Fig.2), and use RV1601 to adjust the voltage that is generated when the screen is changed so that it satisfies the standard.

Standard: Written on the flexible card wire of the display panel with a marker. (–1 V to 2.5 V)(Refer to following Fig.1)
(In case of Fig.1: The value of Vcom is 1.83 V.)

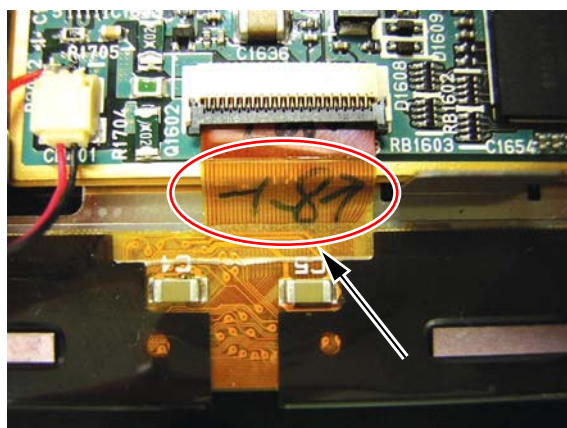


Fig.1

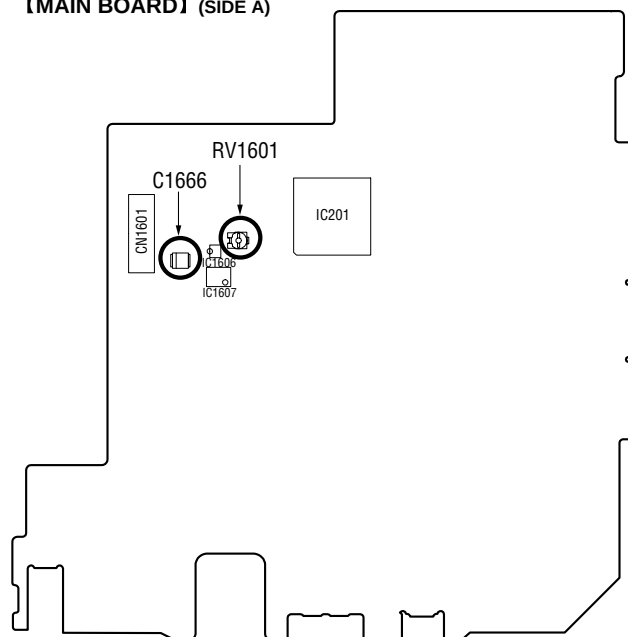


500 mV/DIV, 400 ms/DIV

Fig.2

LOCATION OF C1666 AND RV1601

【MAIN BOARD】(SIDE A)



SECTION 6
DIAGRAMS

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- $\triangle$: internal component.
- : panel designation.
- — : B+ Line.
- --- : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : POWER ON
(For this model, the voltage is produced only when the screen is changed. Under the power on, there is a voltage that isn't produced.)

Note: The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 : AUDIO

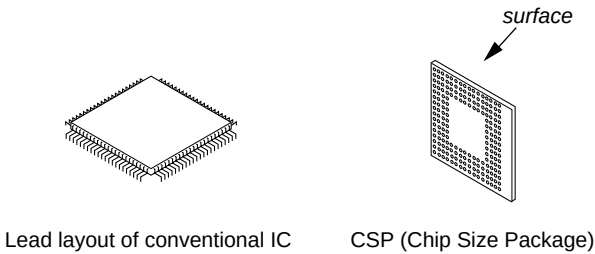
Note on Printed Wiring Board

-  : parts extracted from the component side.
-  : parts extracted from the conductor side.
-  : Pattern from the side which enables seeing.

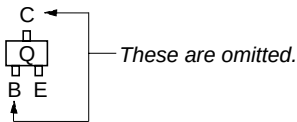
Caution:
Parts face side: Parts on the parts face side seen from the parts face are indicated.
(Side A)
Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.
(Side B)

- These boards are multi-layer printed board. However, the patterns of intermediate-layer have not been included in the diagram.

- Lead Layouts

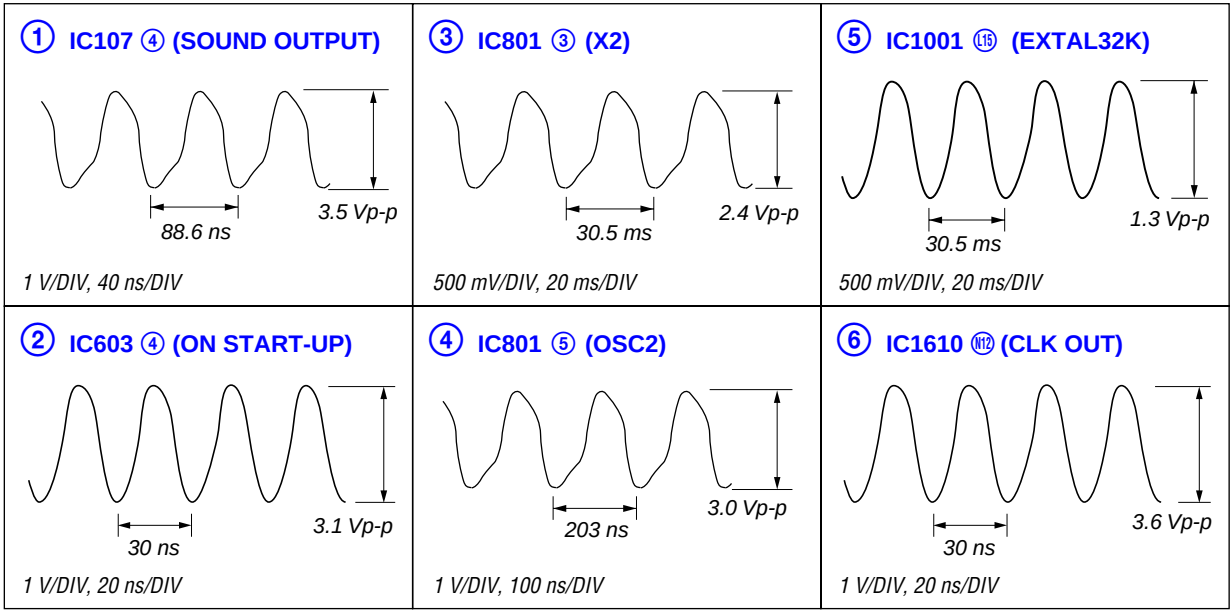


- Indication of transistor.

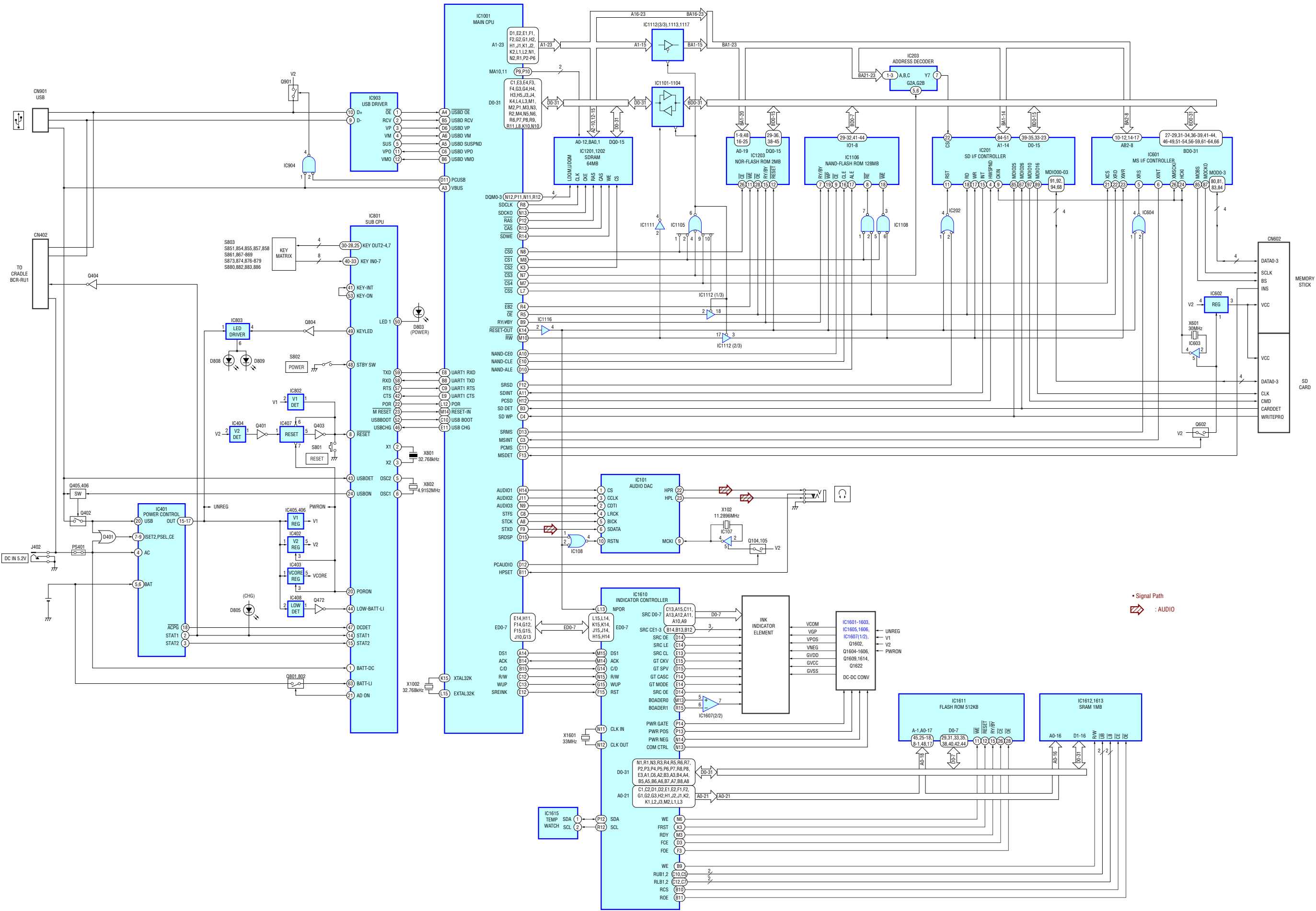


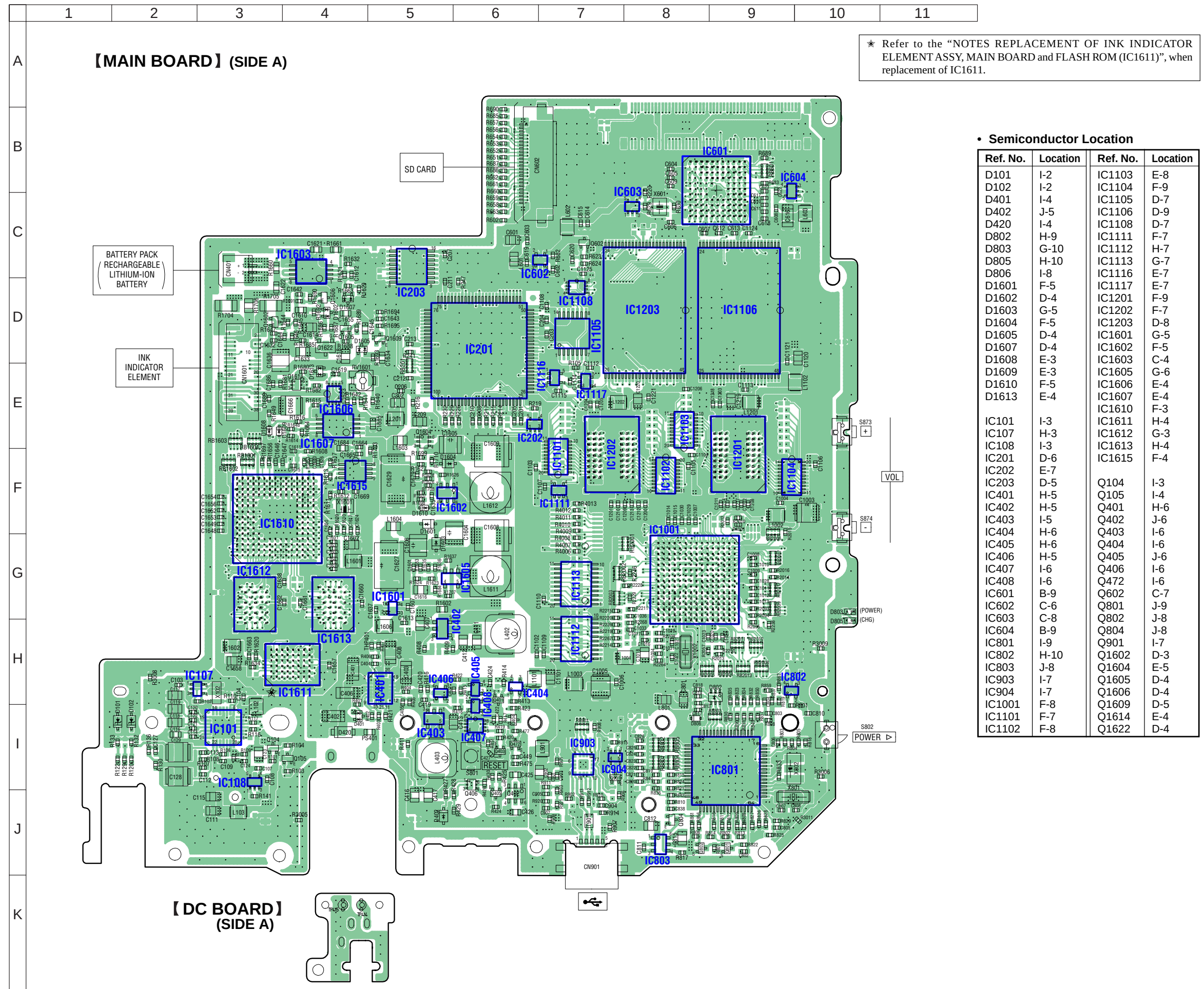
• Waveforms

– MAIN Board –



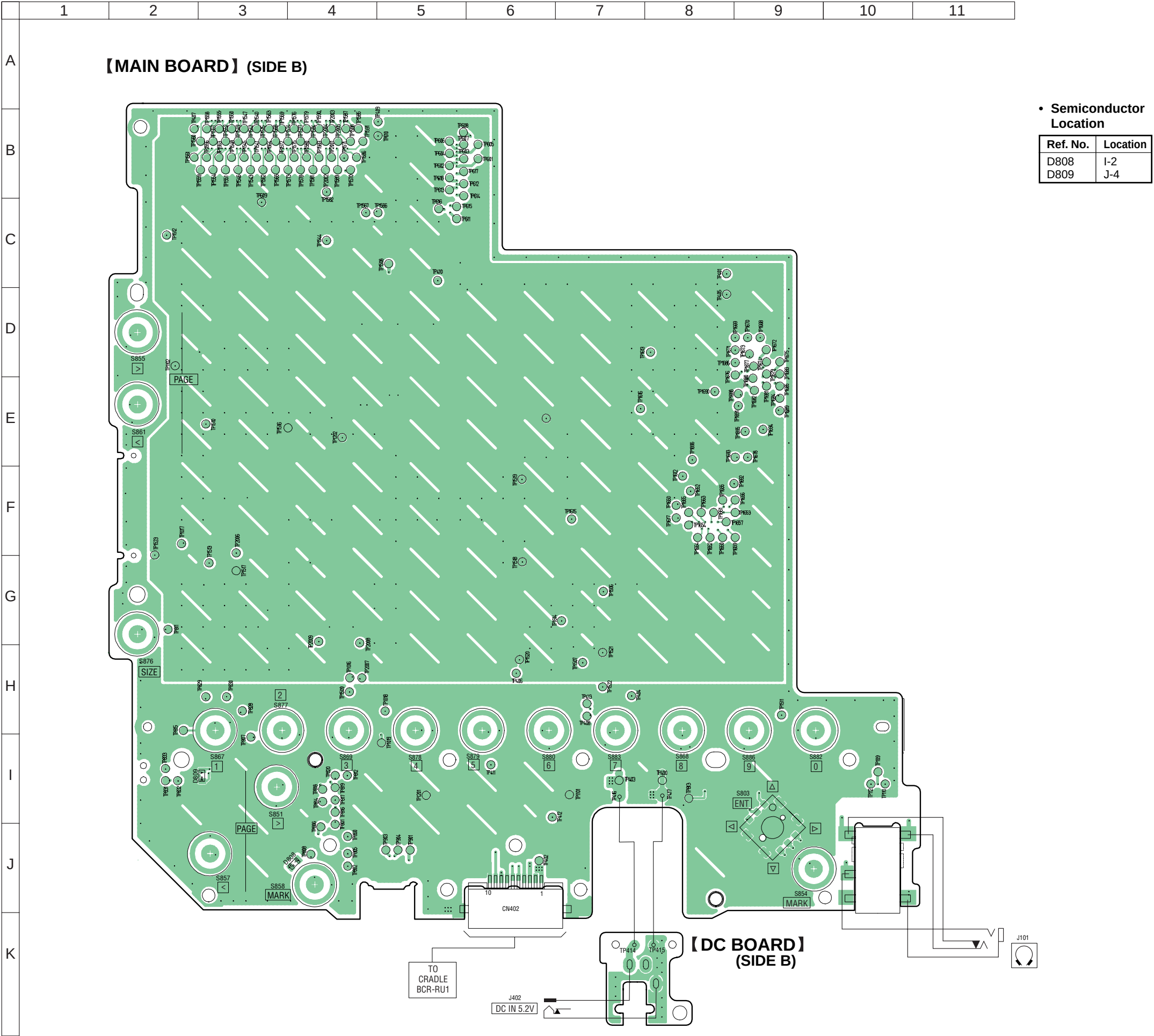
6-1. BLOCK DIAGRAM



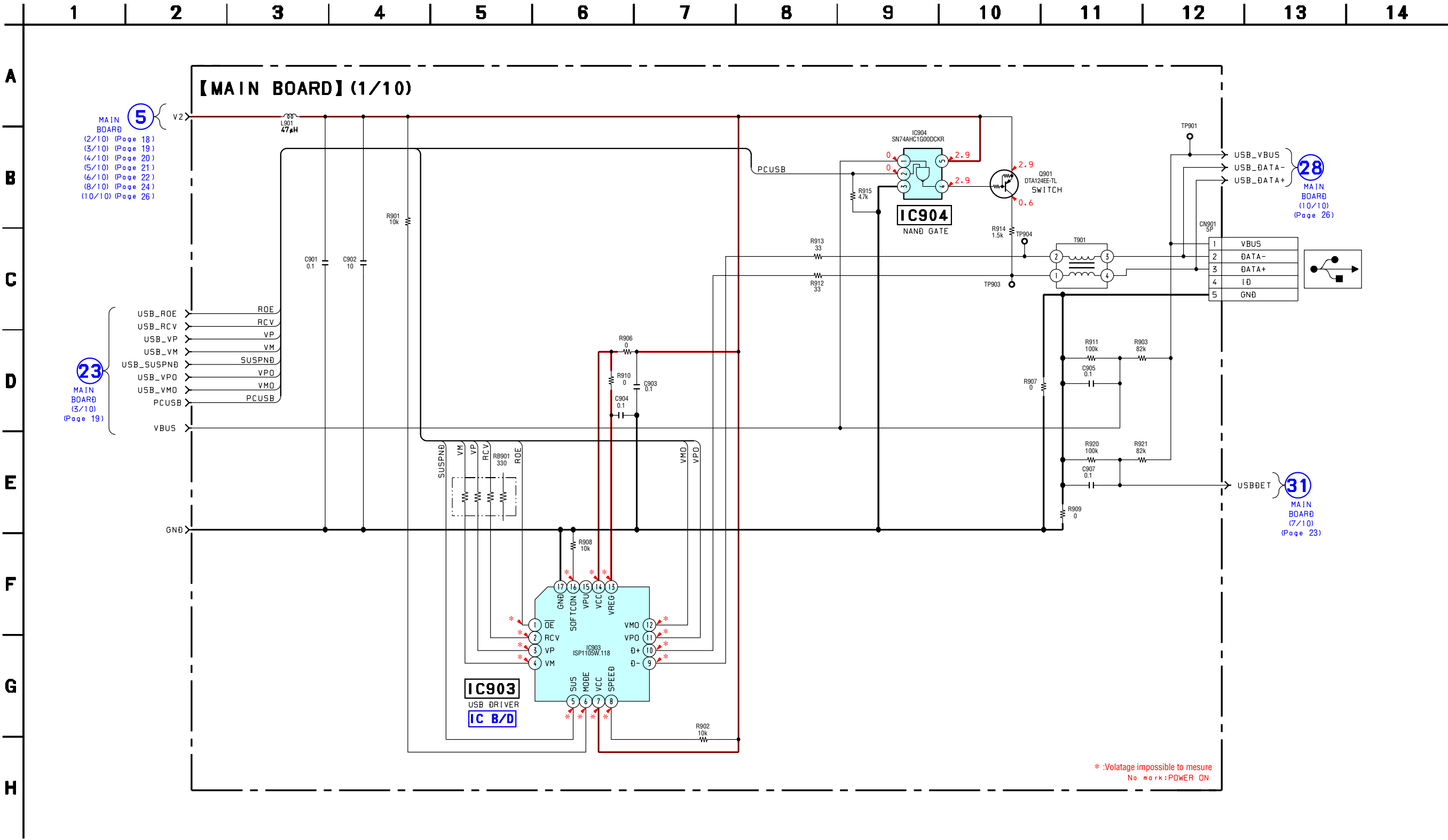


6-3. PRINTED WIRING BOARDS – MAIN, DC BOARD (SIDE B) –

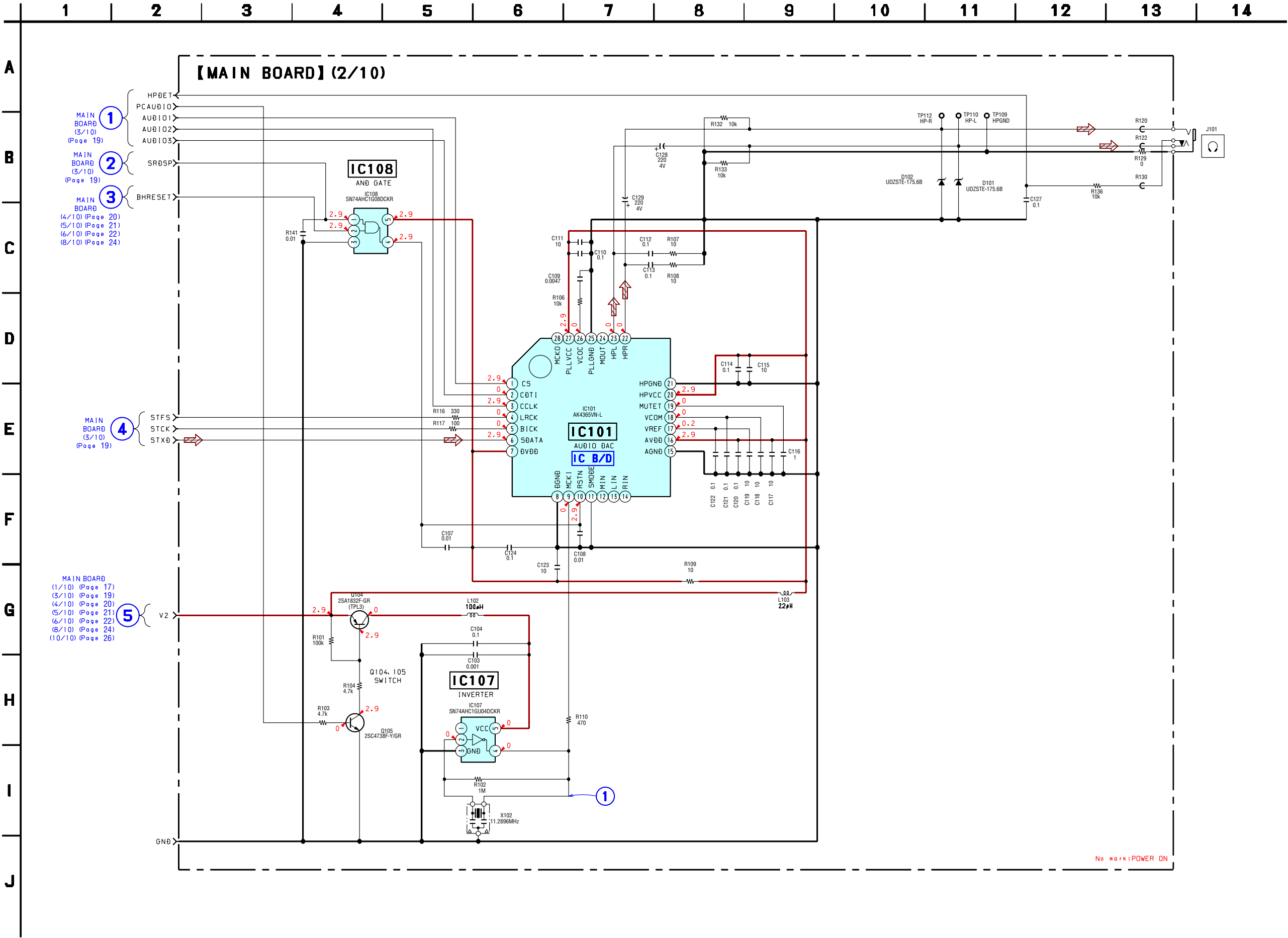
 :Uses unleaded solder.



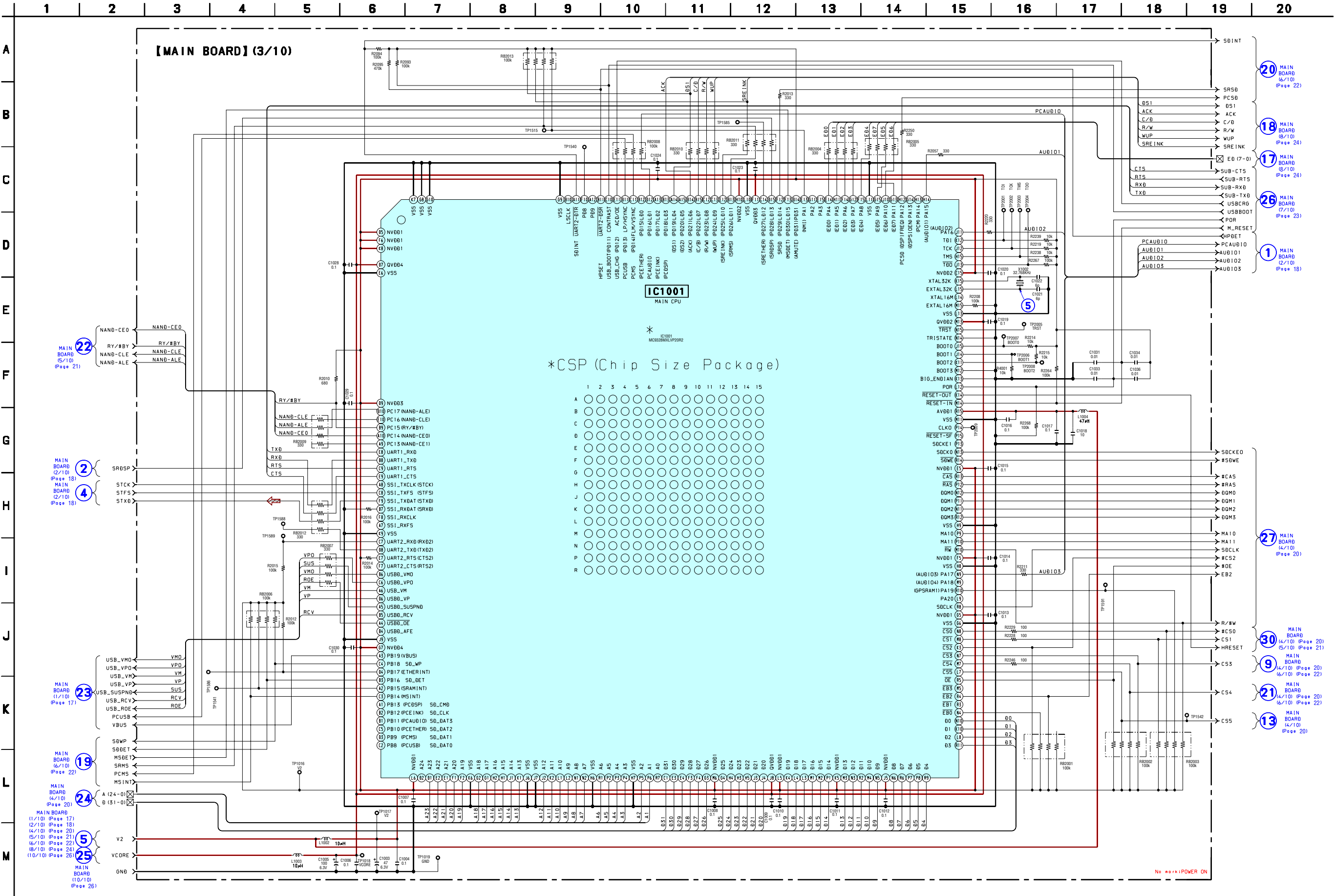
6-4. SCHEMATIC DIAGRAM – MAIN BOARD (1/10) – • See page 32 for IC Block Diagram.

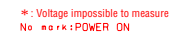


6-5. SCHEMATIC DIAGRAM – MAIN BOARD (2/10) – • See page 13 for Waveform. • See page 27 for IC Block Diagram.

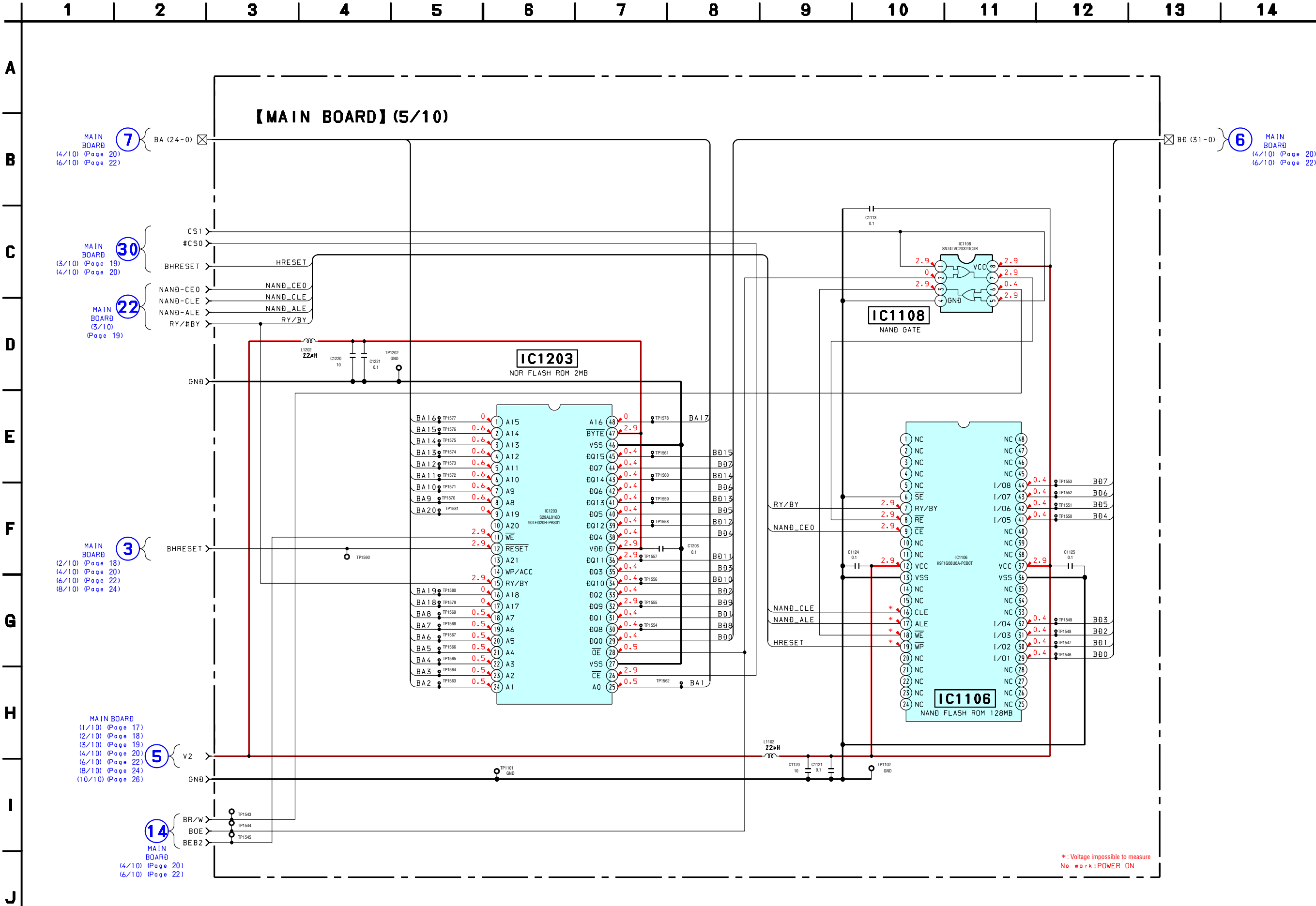


6-6. SCHEMATIC DIAGRAM – MAIN BOARD (3/10) – • See page 13 for Waveform. • See page 33 for IC Pin Function Description.

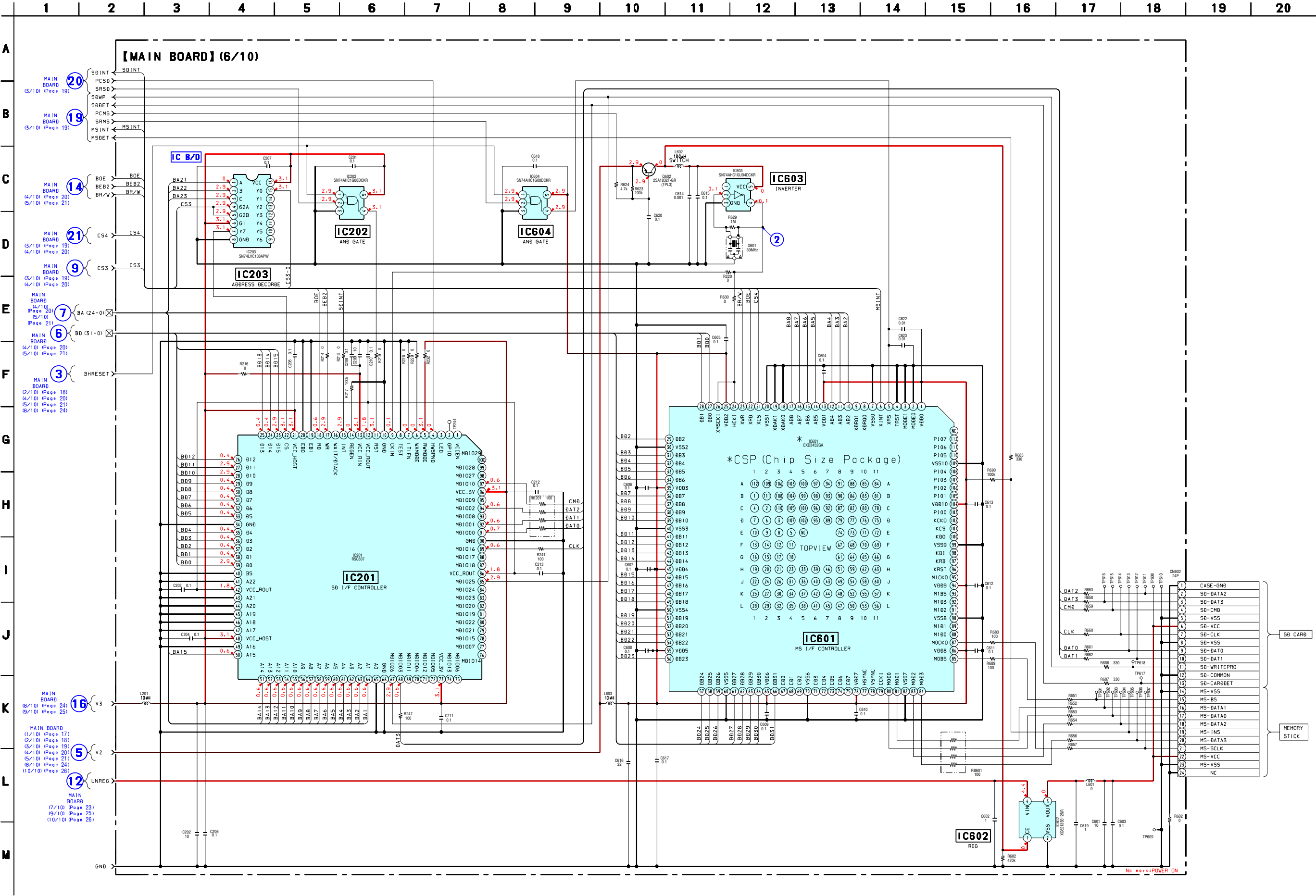




6-8. SCHEMATIC DIAGRAM – MAIN BOARD (5/10) –



6-9. SCHEMATIC DIAGRAM – MAIN BOARD (6/10) – • See page 13 for Waveform. • See page 30 for IC Block Diagram. • See page 44, 47 for IC Pin Function Descriptions.



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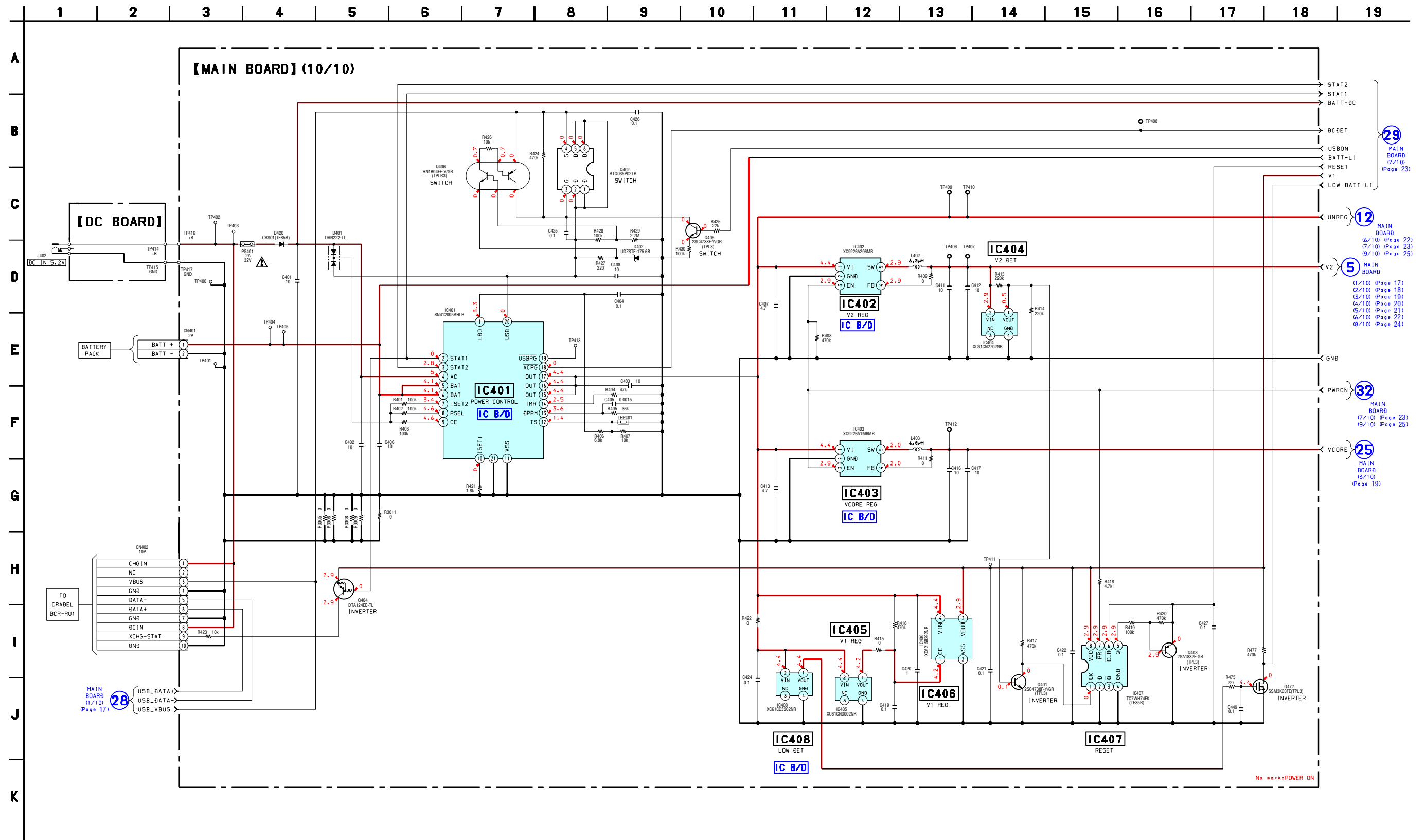




25



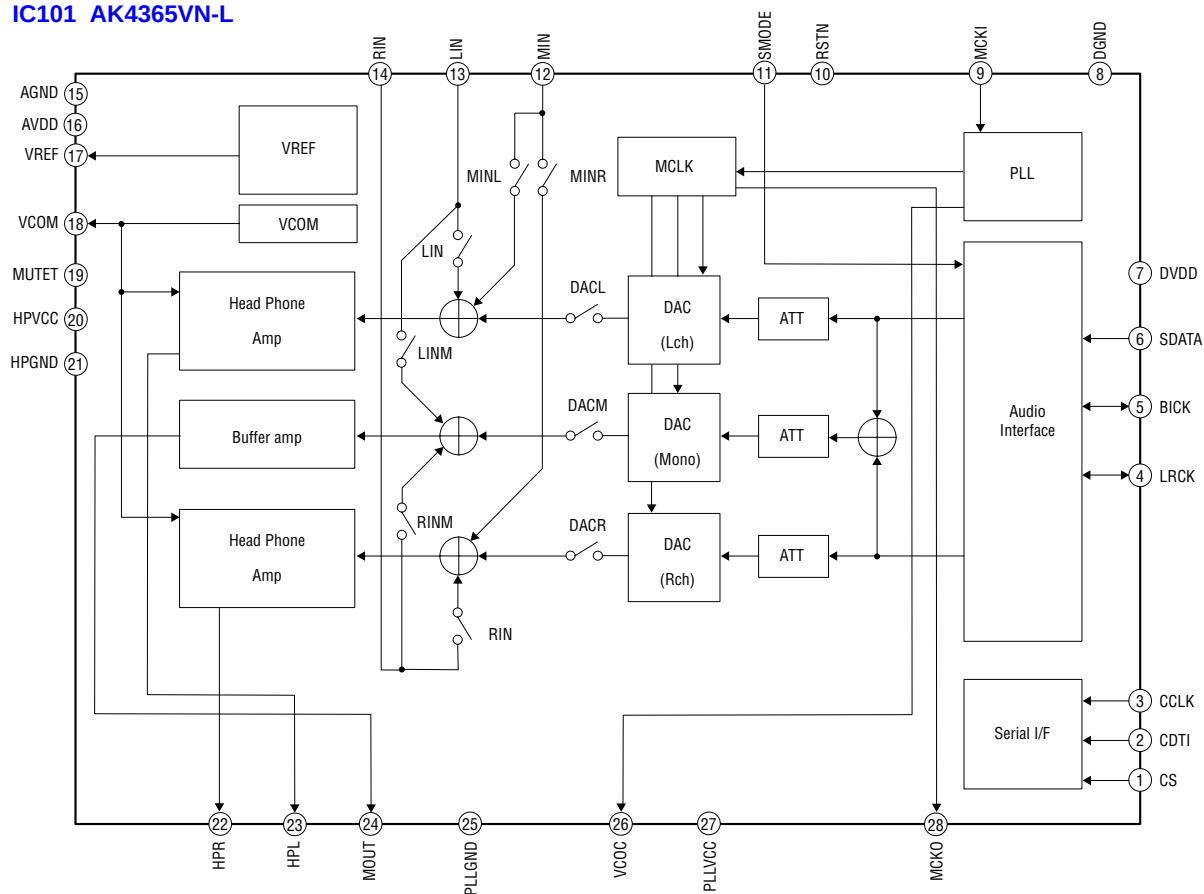
6-13. SCHEMATIC DIAGRAM – MAIN BOARD (10/10), DC BOARD – • See page 30, 31, 32 for IC Block Diagrams.



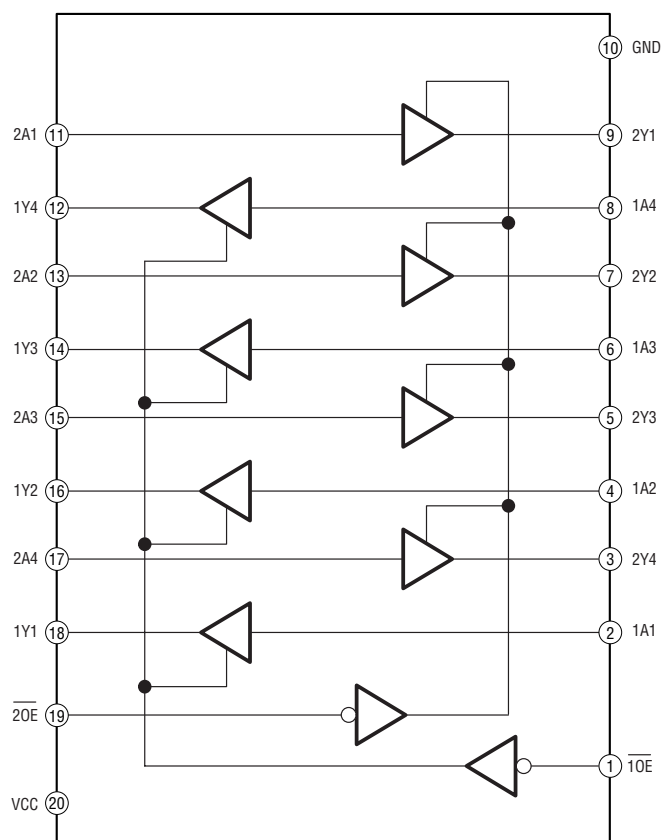
• IC Block Diagrams

– MAIN Board –

IC101 AK4365VN-L

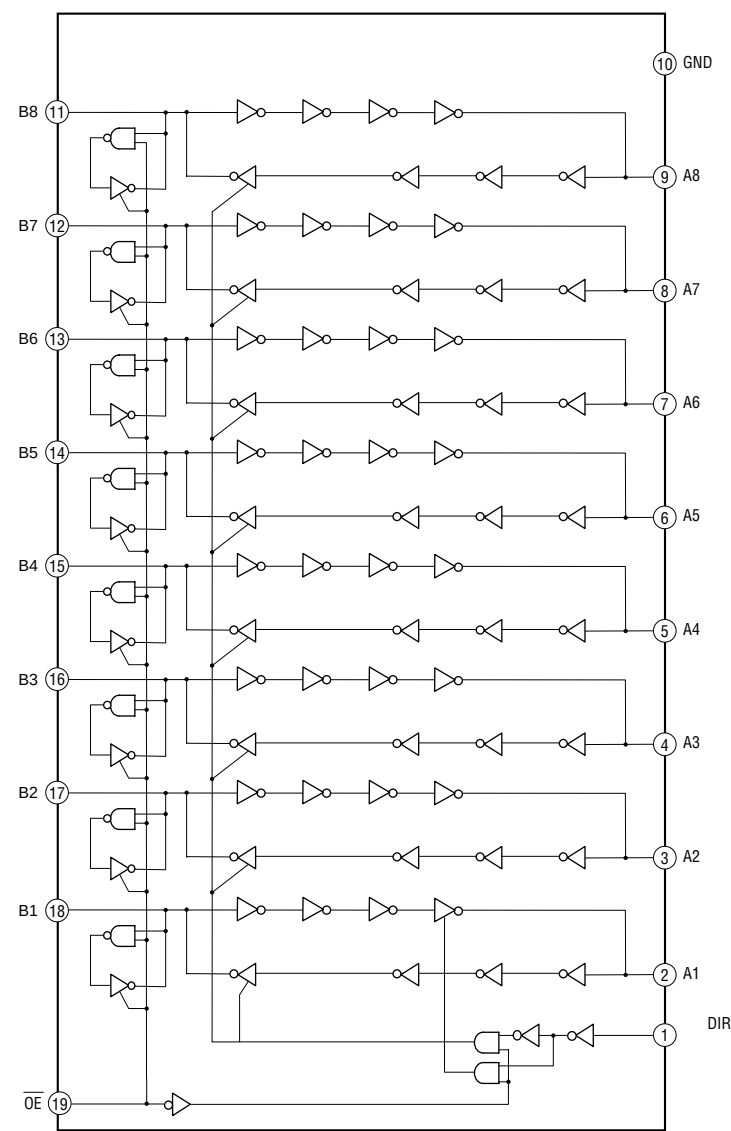


IC1112, IC1113 SN74LVC244APWR

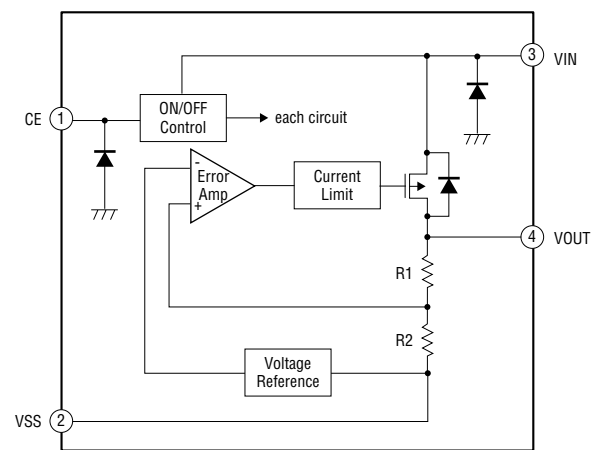


– MAIN Board –

IC1101, IC1102, IC1103, IC1104 TC7MP245FK (EL)

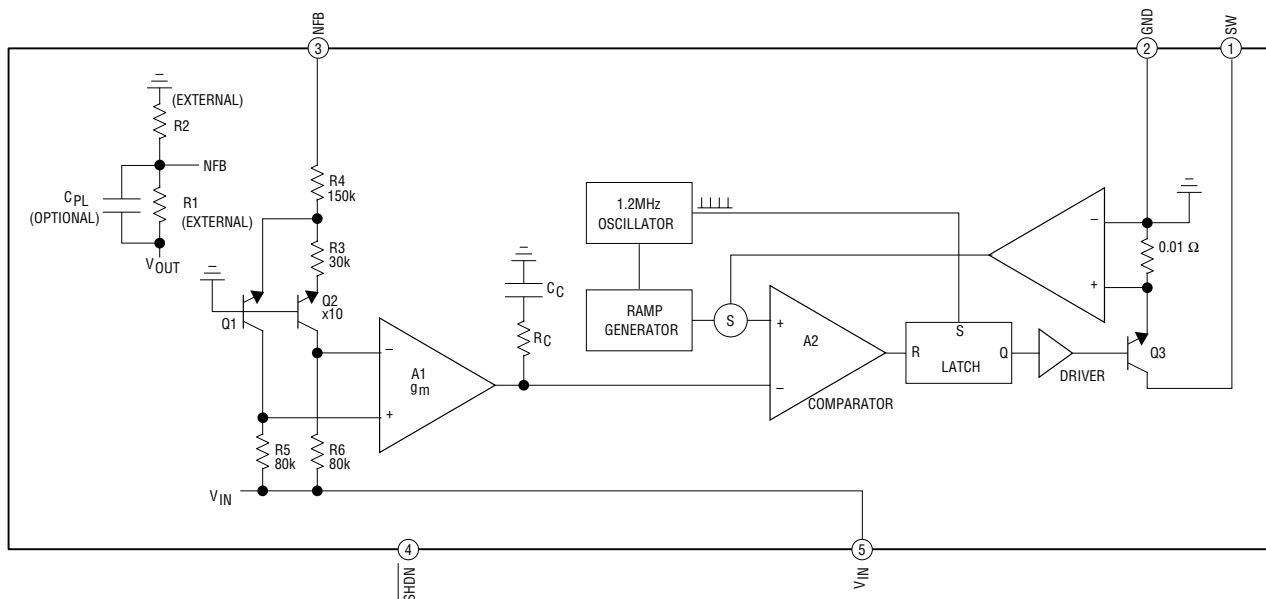


IC1601 XC6215B312NR

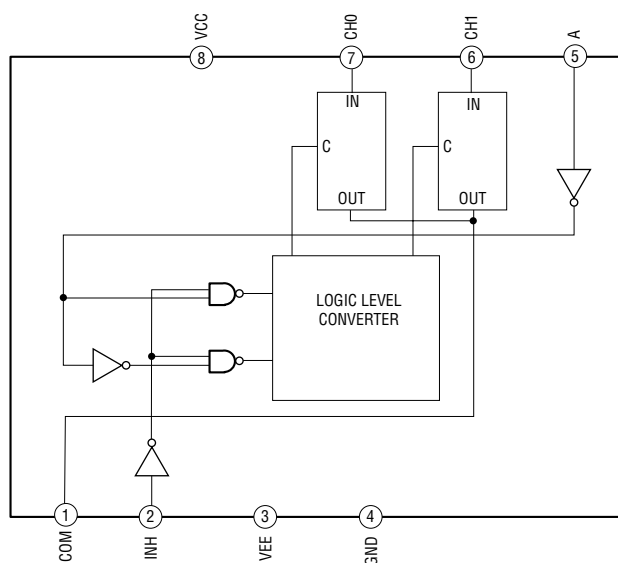


– MAIN Board –

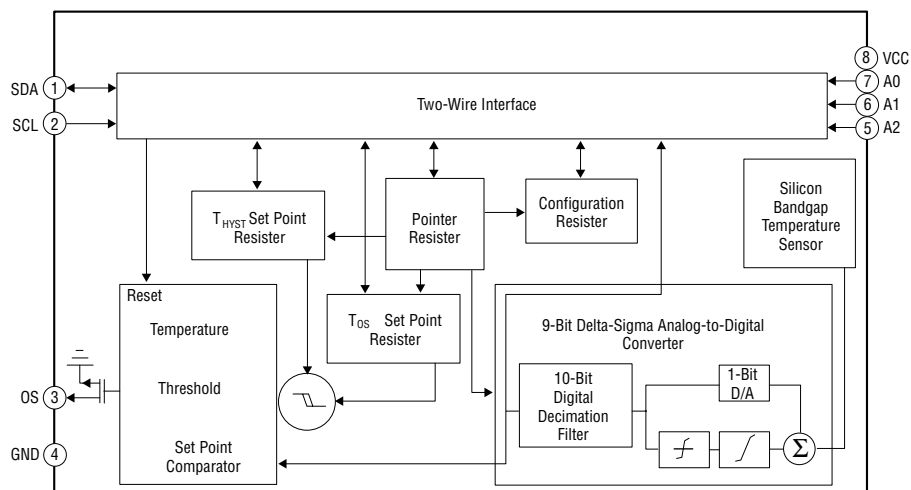
IC1605 LT1931ES5#TR



IC1606 TC7W53FK (TE85R)

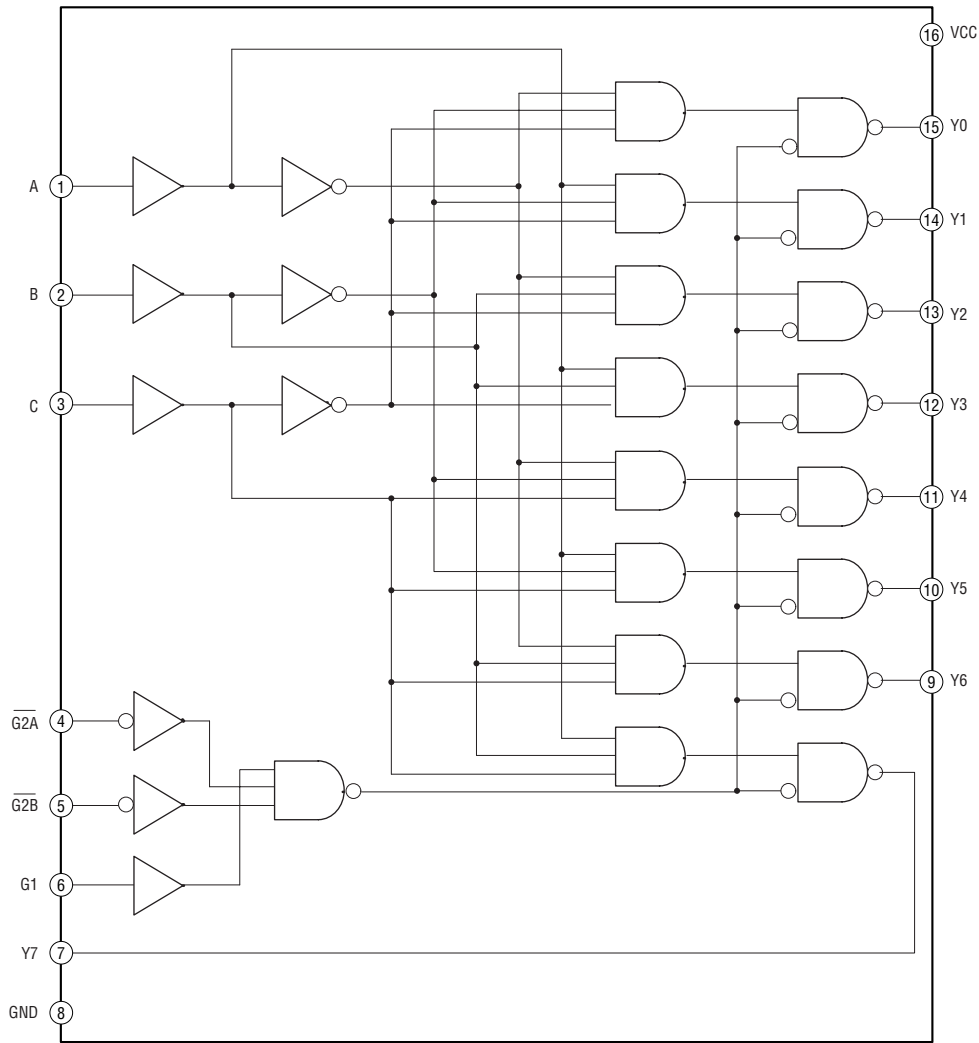


IC1615 LM75CIMMX-3 NOPB

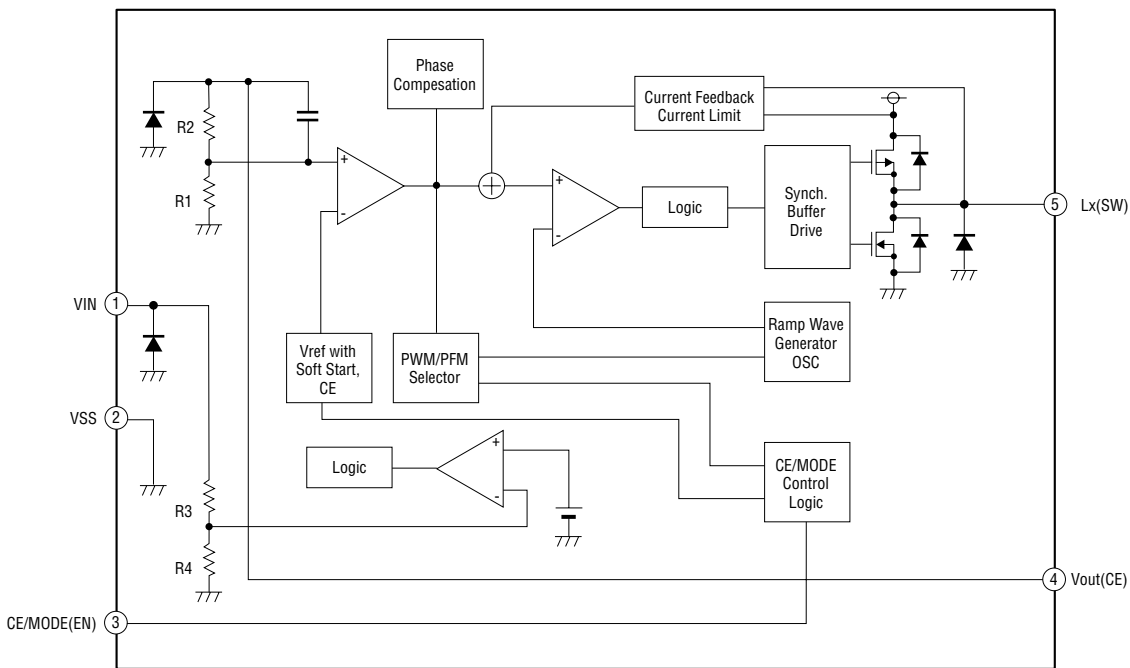


– MAIN Board –

IC203 SN74LVC138APWR-12

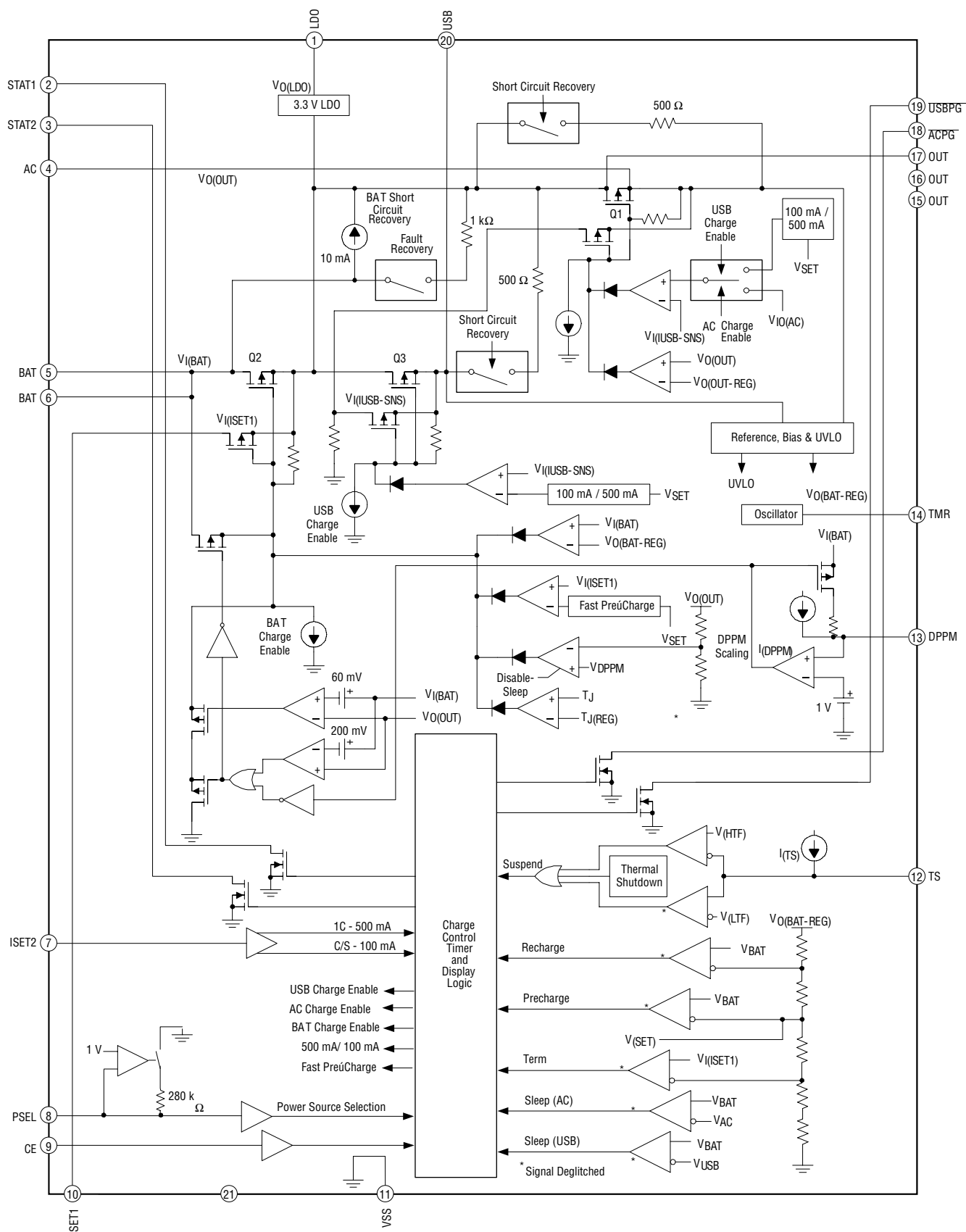


IC402 XC9226A296MR, IC403 XC9226A1M6MR



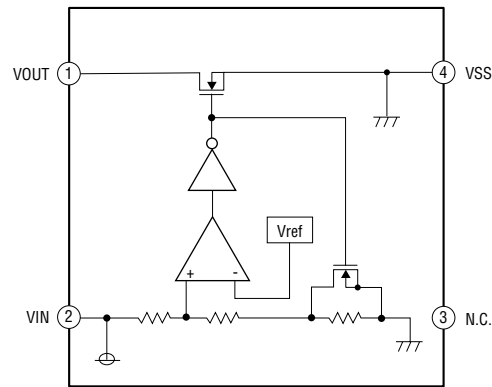
– MAIN Board –

IC401 SN412005RHRLR

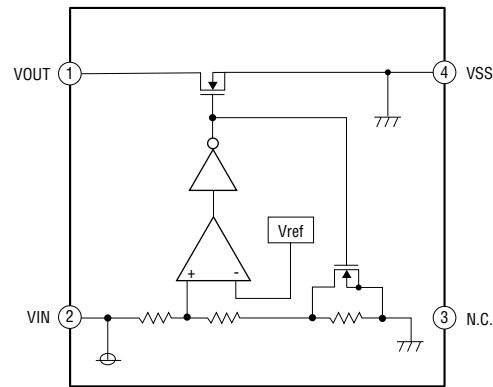


– MAIN Board –

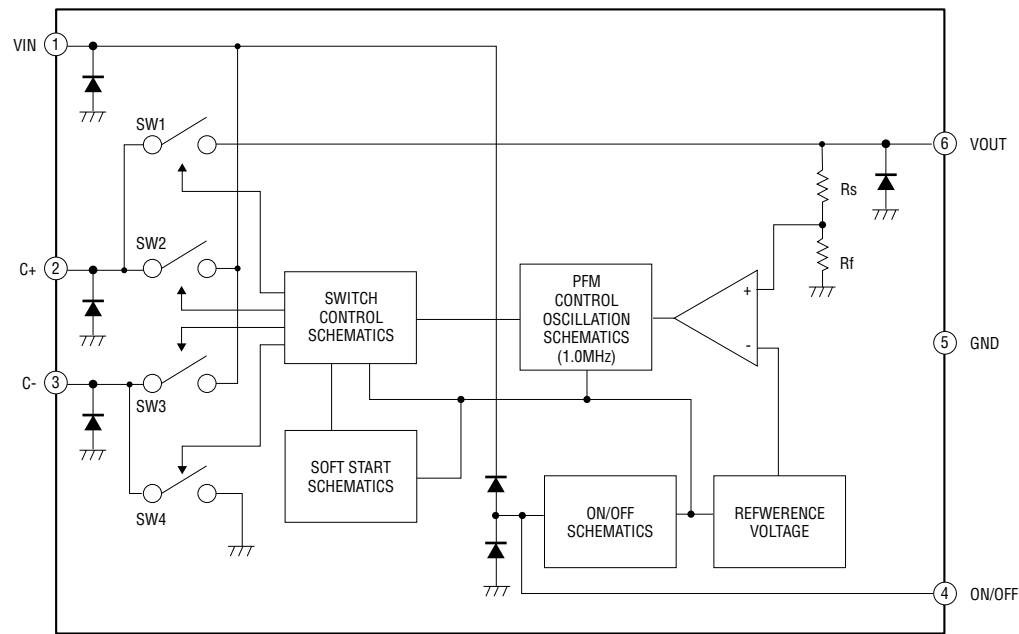
IC408 XC61CC3202NR



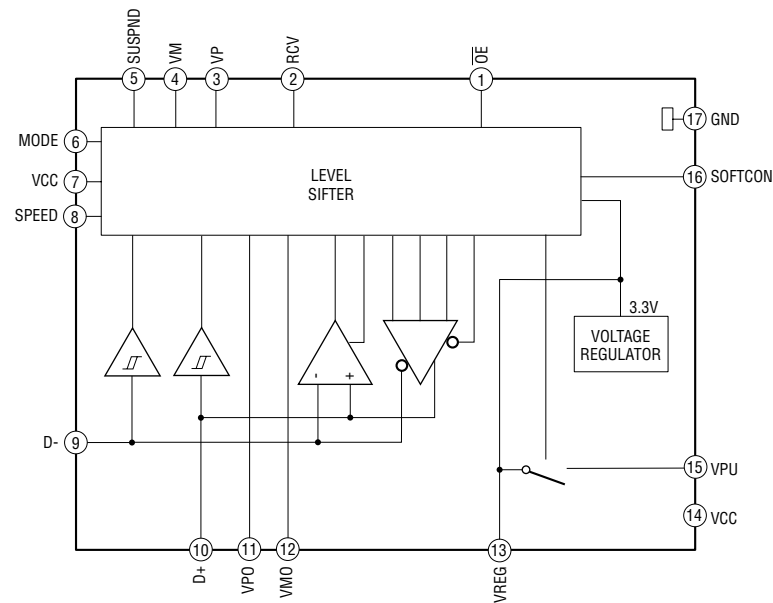
IC802 XC61CN2502NR



IC803 S882150AMH-M2ZTFG



IC903 ISP1105W.118



• IC Pin Function Description

MAIN BOARD IC1001 MC9328MXLVP20R2 (MAIN CPU)

Pin No.	Pin Name	I/O	Description
A1	SD_CMD	O	Not used (Open)
A2	SRAMINT	I	Not used (Fixed to “H”)
A3	VBUS	I	VBUS input
A4	USBD_OE	O	USB output enable
A5	USBD_SUSPND	O	USB suspend
A6	USBD_VM	I	USB minus input
A7	SSI_RXFS	I	Not used (Open)
A8	SSI_TXCLK	O	Serial clock output for audio DAC
A9	NAND-CE1	O	Not used
A10	NAND-CE0	O	Chip enable for NAND Flash ROM
A11	SDINT	I	SD interrupt input
A12	PD9	—	Not used (Open)
A13	PCEINK	—	Not used (Open)
A14	DS1	O	Device select output for indicator controller
A15	DS2	O	Not used (Open)
B1	SD_DAT3	I/O	Not used (Open)
B2	SD_CLK	O	Not used (Open)
B3	SD_DET	I	SD card detect input
B4	USBD_AFE	O	Not used (Open)
B5	USBD_RCV	I	USB receive data input
B6	USBD_VMO	O	USB minus output
B7	SSI_RXDAT	I	Not used (Fixed to “L”)
B8	UART1_TXD	O	Serial data output for sub CPU
B9	RY//BY	I	Ready/Busy input from NAND Flash ROM
B10	LSCLK	O	Not used (Open)
B11	HPSET	I	Head phone detect input
B12	PCETHER	—	Not used (Open)
B13	PCDSP	—	Not used (Open)
B14	ACK	I	Acknowledge from indicator controller
B15	C/D	O	Command/data output for indicator controller
C1	D31	I/O	32 bits data bus
C2	SD_DAT0	I/O	Not used (Open)
C3	MSINT	I	MS interrupt input
C4	SD_WP	I	SD write protect input
C5	SD_DAT2	I/O	Not used (Open)
C6	USBD_VPO	O	USB plus output
C7	UART2_RXD	I	Not used (Fixed to “H”)
C8	SSI_TXFS	O	LRCK output for audio DAC
C9	UART1_RTS	I	Serial request from sub CPU
C10	USB_BOOT	I	USB boot mode input
C11	PCMS	O	Power controll output for SD/MS
C12	R/W	O	Read/write enable output for indicator controller
C13	WUP	O	Wake up output for indicator controller
C14	SREETHER	O	Not used
C15	NVDD2	—	2.9V DC input
D1	A23	O	25 bits address bus
D2	A24	O	25 bits address bus

Pin No.	Pin Name	I/O	Description
D3	SD_DAT1	I/O	Not used (Open)
D4	ETHERINT	I	Not used (Fixed to “H”)
D5	NVDD1	—	2.9V DC input
D6	USBD_VP	I	USB plus input
D7	QVDD4	—	1.95V DC input
D8	UART2_TXD	O	Not used
D9	NVDD3	—	2.9V DC input
D10	NAND-ALE	O	Address latch enable for NAND Flash ROM
D11	PCUSB	O	Power controll output for USB
D12	PCAUDIO	O	Power controll output for DAC clock
D13	SRMS	O	Reset output for MS controller
D14	AMUTE	—	Not used (Open)
D15	SRDSP	O	Reset output for DAC
E1	A21	O	25 bits address bus
E2	A22	O	25 bits address bus
E3	D30	I/O	32 bits data bus
E4	D29	I/O	32 bits data bus
E5	NVDD1	—	2.9V DC input
E6	QVSS	—	Ground
E7	UART2_RTS	I	Not used (Fixed to “H”)
E8	UART1_RXD	I	Serial data input from sub CPU
E9	UART1_CTS	O	Serial clear for sub CPU
E10	NAND-CLE	O	Command latch enable for NAND Flash ROM
E11	USB_CHG	O	USB charge controll output
E12	SREINK	O	Reset output for indicator controller
E13	NMI	I	Not used (Fixed to “H”)
E14	ED0	I/O	8 bits data bus for indicator
E15	PA3	—	Not used (Open)
F1	A20	O	25 bits address bus
F2	A19	O	25 bits address bus
F3	D28	I/O	32 bits data bus
F4	D27	I/O	32 bits data bus
F5	NVDD1	—	2.9V DC input
F6	NVDD1	—	2.9V DC input
F7	UART2_CTS	O	Not used (Fixed to “L”)
F8	SSI_RXCLK	I	Not used (Open)
F9	SSI_TXDAT	O	Serial audio data output for audio DAC
F10	PD8	—	Not used (Open)
F11	QVDD3	—	1.95V DC input
F12	SRSD	O	Reset output for SD controller
F13	MSDET	I	MS detect input from MS slot
F14	ED2	I/O	8 bits data bus for indicator
F15	ED4	I/O	8 bits data bus for indicator
G1	A17	O	25 bits address bus
G2	A18	O	25 bits address bus
G3	D26	I/O	32 bits data bus
G4	D25	I/O	32 bits data bus
G5	NVDD1	—	2.9V DC input
G6	NVSS	—	Ground

Pin No.	Pin Name	I/O	Description
G7	NVDD4	—	2.9V DC input
G8	NVSS	—	Ground
G9	NVSS	—	Ground
G10	QVSS	—	Ground
G11	PA2	—	Not used (Open)
G12	ED3	I/O	8 bits data bus for indicator
G13	ED7	I/O	8 bits data bus for indicator
G14	DSPSIOEN	—	Not used (Open)
G15	ED5	I/O	8 bits data bus for indicator
H1	A15	O	25 bits address bus
H2	A16	O	25 bits address bus
H3	D23	I/O	32 bits data bus
H4	D24	I/O	32 bits data bus
H5	D22	I/O	32 bits data bus
H6	NVSS	—	Ground
H7	NVSS	—	Ground
H8	NVSS	—	Ground
H9	NVSS	—	Ground
H10	NVDD2	—	2.9V DC input
H11	ED1	I/O	8 bits data bus for indicator
H12	PCSD	O	Suspend output for SD controller
H13	PCM	—	Not used (Open)
H14	AUDIO1	O	Chip select output for DAC
H15	TMS	I	Test mode select input for test (Not used (Fixed to “H”))
J1	A14	O	25 bits address bus
J2	A12	O	25 bits address bus
J3	D21	I/O	32 bits data bus
J4	D20	I/O	32 bits data bus
J5	NVDD1	—	2.9V DC input
J6	NVSS	—	Ground
J7	NVSS	—	Ground
J8	QVDD1	—	1.95V DC input
J9	NVSS	—	Ground
J10	ED6	I/O	8 bits data bus for indicator
J11	AUDIO2	O	Command clock output for DAC
J12	TCK	I	Test clock input for test (Not used (Fixed to “H”))
J13	$\overline{\text{TDO}}$	O	Serial data output for test (Not used (Fixed to “H”))
J14	BOOT1	I	System boot mode select input (Pull-down) (Not used (Fixed to “L”))
J15	BOOT0	I	System boot mode select input (Pull-up) (Not used (Fixed to “H”))
K1	A13	O	25 bits address bus
K2	A11	O	25 bits address bus
K3	$\overline{\text{CS2}}$	O	Chip select
K4	D19	I/O	32 bits data bus
K5	NVDD1	—	2.9V DC input
K6	NVSS	—	Ground
K7	QVSS	—	Ground
K8	NVDD1	—	2.9V DC input
K9	NVSS	—	Ground
K10	D1	I/O	32 bits data bus

Pin No.	Pin Name	I/O	Description
K11	BOOT2	I	System boot mode select input (Pull-up) (Not used (Fixed to “H”))
K12	TDI	I	Serial data input for test (Not used (Fixed to “H”))
K13	BIG_ENDIAN	I	Big endian input (Not used (Fixed to “L”))
K14	RESET_OUT	O	Reset output
K15	XTAL32K	O	32kHz crystal output
L1	A10	O	25 bits address bus
L2	A9	O	25 bits address bus
L3	D17	I/O	32 bits data bus
L4	D18	I/O	32 bits data bus
L5	NVDD1	—	2.9V DC input
L6	NVDD1	—	2.9V DC input
L7	CS5	O	Chip select
L8	D2	I/O	32 bits data bus
L9	PA20	—	Not used (Open)
L10	NVSS	—	Ground
L11	NVSS	—	Ground
L12	POR	I	Power on reset input
L13	QVSS	—	Ground
L14	XTAL16M	O	Crystal output (Not used (Open))
L15	EXTAL32K	I	32kHz crystal input
M1	D16	I/O	32 bits data bus
M2	D15	I/O	32 bits data bus
M3	D13	I/O	32 bits data bus
M4	D10	I/O	32 bits data bus
M5	EB3	O	Not used (Open)
M6	NVDD1	—	2.9V DC input
M7	CS4	O	Chip select
M8	CS1	O	Chip select
M9	AUDIO4	O	Not used (Open)
M10	RW	O	Read/write enable output
M11	NVSS	—	Ground
M12	BOOT3	I	System boot mode select input (Not used (Fixed to “L”))
M13	QVDD2	—	1.95V DC input
M14	RESET_IN	I	Reset input from sub CPU
M15	EXTAL16M	I	Crystal input (Pull-down) (Not used (Fixed to “L”))
N1	A8	O	25 bits address bus
N2	A7	O	25 bits address bus
N3	D12	I/O	32 bits data bus
N4	EB0	O	Not used (Fixed to “H”)
N5	D9	I/O	32 bits data bus
N6	D8	I/O	32 bits data bus
N7	CS3	O	Chip select
N8	CS0	O	Chip select
N9	AUDIO3	O	Command data output for DAC
N10	D0	I/O	32 bits data bus
N11	DQM2	O	Data enable output for SDRAM
N12	DQM0	O	Data enable output for SDRAM
N13	SDCKE0	O	Clock enable output for SDRAM
N14	TRISTATE	I	Not used (Fixed to “L”)

Pin No.	Pin Name	I/O	Description
N15	$\overline{\text{TRST}}$	I/O	Read/write from main CPU (Not used (Open))
P1	D14	I/O	32 bits data bus
P2	A5	O	25 bits address bus
P3	A4	O	25 bits address bus
P4	A3	O	25 bits address bus
P5	A2	O	25 bits address bus
P6	A1	O	25 bits address bus
P7	D6	I/O	32 bits data bus
P8	D5	I/O	32 bits data bus
P9	MA10	O	Address output for SDRAM
P10	MA11	O	Address output for SDRAM
P11	DQM1	O	Data enable output for SDRAM
P12	$\overline{\text{RAS}}$	O	Row address select output for SDRAM
P13	SDCKE1	O	Not used (Open)
P14	CLKO	O	Not used (Open)
P15	$\overline{\text{RESET\_SF}}$	—	Not used (Open)
R1	A6	O	25 bits address bus
R2	D11	I/O	32 bits data bus
R3	$\overline{\text{EB1}}$	O	Not used (Open)
R4	$\overline{\text{EB2}}$	O	Byte strobe (D15-8)
R5	$\overline{\text{OE}}$	O	Output enable
R6	D7	I/O	32 bits data bus
R7	A0	O	25 bits address bus
R8	SDCLK	O	Clock output for SDRAM
R9	D4	I/O	32 bits data bus
R10	GPSRAM1	O	Not used (Fixed to “H”)
R11	D3	I/O	32 bits data bus
R12	DQM3	O	Data enable output for SDRAM
R13	$\overline{\text{CAS}}$	O	Column address select output for SDRAM
R14	$\overline{\text{SDWE}}$	O	Write enable output for SDRAM
R15	AVDD1	—	2.9V DC input

MAIN BOARD IC801 HD64338002A21FPV (SUB CPU)

Pin No.	Pin Name	I/O	Description
1	BATT-DC	I	AC adapter DC input
2	X1	I	32.768kHz clock input
3	X2	O	32.768kHz clock output
4	VSS	—	Ground
5	OSC2	O	4.9152MHz clock output
6	OSC1	I	4.9152MHz clock input
7	TEST	I	Test terminal (Short GND)
8	RESET	I	Reset input
9	N.C.	I	Not used (Fixed to “H”)
10	N.C.	I	Not used (Fixed to “H”)
11	P33		Not used (Fixed to “H”)
12	P34		Not used (Fixed to “H”)
13	P35		Not used (Fixed to “H”)
14	STAT1	I	Charge monitor input1
15	STAT2	I	Charge monitor input2
16	VCC	—	2.9V DC input
17	V1	—	Not used (Fixed to “H”)
18	V2	—	Not used (Fixed to “H”)
19	V3	—	Not used (Fixed to “H”)
20	PWRON	O	Main power on signal output
21	AD_ON	O	A/D input control signal output
22	POR	I/O	Power on reset input/output
23	M_RESET	I/O	Reset input/output
24	USBON	O	USB charge control output
25	KEY_OUT7	O	Key scan output
26	KEY_OUT6	O	Key scan output (Not used (Open))
27	KEY_OUT5	O	Key scan output (Not used (Open))
28	KEY_OUT4	O	Key scan output
29	KEY_OUT3	O	Key scan output
30	KEY_OUT2	O	Key scan output
31	KEY_OUT1	O	Key scan output (Not used (Open))
32	KEY_OUT0	O	Key scan output (Not used (Open))
33	KEY_in7	I	Key scan input
34	KEY_IN6	I	Key scan input
35	KEY_IN5	I	Key scan input
36	KEY_IN4	I	Key scan input
37	KEY_IN3	I	Key scan input
38	KEY_IN2	I	Key scan input
39	KEY_IN1	I	Key scan input
40	KEY_IN0	I	Key scan input
41	KEY-INT	I	Key scan interrupt input
42	CTS	I	CTS(UART) input
43	USBDET	I	USB cable insert detect signal
44	LOW-BATT-LI	I	Lithium battery low detect input
45	N.C.	I	Not used (Fixed to “L”)
46	USBCHG	I	USB charge permit input
47	DCDET	I	AC adapter DC detect input
48	STBY_SW	I	Standby switch input

Pin No.	Pin Name	I/O	Description
49	KEYLED	O	Key LED output
50	LED_1	O	LED 1 output
51	LED_2	O	LED 2 output (Not used (Open))
52	USBBOOT	O	Boot mode control
53	KEY-ON	O	Key-INT signal control output
54	P95	O	Not used (Fixed to “H”)
55	VSS	—	Ground
56	N.C.	I	Not used (Fixed to “L”)
57	RTS	O	RTS(UART) input
58	RXD	I	RXD(UART) input
59	TXD	O	TXD(UART) input
60	N.C.	I	Not used (Fixed to “L”)
61	AVCC	—	2.9V DC input
62	N.C.	I	Not used (Fixed to “L”)
63	BATT-LI	I	Lithium battery DC input
64	N.C.	I	Not used (Fixed to “L”)

MAIN BOARD IC1610 APOLLO1-18 (INDICATOR CONTROLLER)

Pin No.	Pin Name	I/O	Description
A1	D17	I/O	32 bits data bus
A2	D19	I/O	32 bits data bus
A3	D21	I/O	32 bits data bus
A4	D23	I/O	32 bits data bus
A5	D25	I/O	32 bits data bus
A6	D27	I/O	32 bits data bus
A7	D29	I/O	32 bits data bus
A8	D31	I/O	32 bits data bus
A9	SRC_D7	O	8 bits source driver data bus
A10	SRC_D6	O	8 bits source driver data bus
A11	SRC_D5	O	8 bits source driver data bus
A12	SRC_D4	O	8 bits source driver data bus
A13	SRC_D3	O	8 bits source driver data bus
A14	n.c.	—	Not used (Open)
A15	SRC_D1	O	8 bits source driver data bus
B1	n.c.	—	Not used (Open)
B2	Vss	—	Ground
B3	D20	I/O	32 bits data bus
B4	D22	I/O	32 bits data bus
B5	D24	I/O	32 bits data bus
B6	D26	I/O	32 bits data bus
B7	D28	I/O	32 bits data bus
B8	D30	I/O	32 bits data bus
B9	R_NWE	O	Write enable for SRAM
B10	R_NCS	O	Chip select for SRAM
B11	R_NOE	O	Output enable for SRAM
B12	SRC_CE3	O	Chip enable 3 for source driver
B13	SRC_CE2	O	Chip enable 2 for source driver
B14	SRC_CE1	O	Chip enable 1 for source driver
B15	n.c.	—	Not used (Open)
C1	A0	O	22 bits address bus
C2	A1	O	22 bits address bus
C3	VDD	—	+3V0
C4	VSS	—	Ground
C5	R_NUB2	O	Byte select 3 for SRAM
C6	D18	I/O	32 bits data bus
C7	R_NLB2	O	Byte select 2 for SRAM
C8	VDD	—	+3V0
C9	n.c.	—	Not used (Open)
C10	R_NUB1	O	Byte select 1 for SRAM
C11	SRC_D2	O	8 bits source driver data bus
C12	R_NLB1	O	Byte select 0 for SRAM
C13	SRC_D0	O	8 bits source driver data bus
C14	SRC_LE	O	Latch enable for source driver
C15	VSS	—	Ground
D1	A2	O	22 bits address bus
D2	A3	O	22 bits address bus
D3	F_NCE	O	Chip enable for Flash

Pin No.	Pin Name	I/O	Description
D4	VDD	—	+3V0
D5	VDD	—	+3V0
D6	VSS	—	Ground
D7	VSS	—	Ground
D8	n.c.	—	Not used (Open)
D9	VSS	—	Ground
D10	VSS	—	Ground
D11	VDD	—	+3V0
D12	VSS	—	Ground
D13	VDD	—	+3V0
D14	SRC_OE	O	Output enable for source driver
D15	GT_SPV	O	Start signal for gate driver
E1	A4	O	22 bits address bus
E2	A5	O	22 bits address bus
E3	D16	I/O	32 bits data bus
E4	VSS	—	Ground
E5	n.c.	—	Not used (Open)
E12	VSS	—	Ground
E13	SRC_CL	O	Clock for source driver
E14	GT_MODE	O	Mode select for gate driver
E15	GT_CKV	O	Clock for gate driver
F1	A6	O	22 bits address bus
F2	A7	O	22 bits address bus
F3	F_NOE	O	Output enable for Flash
F4	VSS	—	Ground
F12	n.c.	—	Not used (Open)
F13	TST0	I	Test mode (normal = “0”)(Not used (Fixed to “L”))
F14	GT_CASC	O	CAS select for gate driver
F15	H_NRST	I	Reset from main CPU
G1	A8	O	22 bits address bus
G2	A9	O	22 bits address bus
G3	A10	O	22 bits address bus
G4	VSS	—	Ground
G12	VSS	—	Ground
G13	VDD	—	+3V0
G14	H_CD	I	Command/Data from main CPU
G15	H_WUP	I	Wakeup from main CPU
H1	A12	O	22 bits address bus
H2	A11	O	22 bits address bus
H3	VDD	—	+3V0
H4	n.c.	—	Not used (Open)
H12	n.c.	—	Not used (Open)
H13	VDD	—	+3V0
H14	H_D7	I/O	8 bits data bus for main CPU
H15	H_D6	I/O	8 bits data bus for main CPU
J1	A14	O	22 bits address bus
J2	A13	O	22 bits address bus
J3	A18	O	22 bits address bus
J4	VSS	—	Ground

Pin No.	Pin Name	I/O	Description
J12	VSS	—	Ground
J13	TST3	I	AutOmode (normal = “0”)(Not used (Fixed to “L”))
J14	H_D5	I/O	8 bits data bus for main CPU
J15	H_D4	I/O	8 bits data bus for main CPU
K1	A16	O	22 bits address bus
K2	A15	O	22 bits address bus
K3	F_NRST	O	N reset for Flash
K4	VSS	—	Ground
K12	VSS	—	Ground
K13	TST2	I	Test mode (normal = “0”)(Not used (Fixed to “L”))
K14	H_D3	I/O	8 bits data bus for main CPU
K15	H_D2	I/O	8 bits data bus for main CPU
L1	A20	O	Not used (Open)
L2	A17	O	22 bits address bus
L3	A21	O	Not used (Open)
L4	VDD	—	+3V0
L12	VSS	—	Ground
L13	NPOR	I	Power on reset
L14	H_D1	I/O	8 bits data bus for main CPU
L15	H_D0	I/O	8 bits data bus for main CPU
M1	VDD	—	+3V0
M2	A19	O	Not used (Open)
M3	F_RDY	I	Ready for Flash
M4	VDD	—	+3V0
M5	VSS	—	Ground
M6	VSS	—	Ground
M7	VDD	—	+3V0
M8	n.c.	—	Not used (Open)
M9	VSS	—	Ground
M10	VSS	—	Ground
M11	n.c.	—	Not used
M12	VDD	—	+3V0
M13	BORDER0	O	Border control
M14	H_ACK	O	Acknowledge for main CPU
M15	H_DS	I	Device select from main CPU
N1	D0	I/O	32 bits data bus
N2	VSS	—	Ground
N3	D2	I/O	32 bits data bus
N4	VDD	—	+3V0
N5	BIST_EN	I	Bist enable (Not used (Fixed to “L”))
N6	F_NWE	O	Write enable for Flash
N7	n.c.	—	Not used (Open)
N8	VSS	—	Ground
N9	VDD	—	+3V0
N10	VSS	—	Ground
N11	CLK	I	Clock input
N12	CLK_OUT	O	Clock output
N13	COM_CTRL	O	Common control
N14	PWR_NEG	O	Negative power

Pin No.	Pin Name	I/O	Description
N15	H_RW	I	Read/write from main CPU
P1	VSS	—	Ground
P2	D8	I/O	32 bits data bus
P3	D9	I/O	32 bits data bus
P4	D10	I/O	32 bits data bus
P5	D11	I/O	32 bits data bus
P6	D12	I/O	32 bits data bus
P7	D13	I/O	32 bits data bus
P8	D15	I/O	32 bits data bus
P9	SLOW_CLK_MID	I/O	Slow clock mid point
P10	TST1	O	Test mode (normal = “0”)(Not used (Fixed to “L”))
P11	VDD	I	+3V0
P12	SDA	—	IIC bus serial data
P13	PWR_POS	I/O	Positive power
P14	PWR_GATE	O	Gate for power
P15	VSS	O	Ground
R1	D1	—	32 bits data bus
R2	n.c.	I/O	Not used (Open)
R3	D3	—	32 bits data bus
R4	D4	I/O	32 bits data bus
R5	D5	I/O	32 bits data bus
R6	D6	I/O	32 bits data bus
R7	D7	I/O	32 bits data bus
R8	D14	I/O	32 bits data bus
R9	SLOW_CLK_IN	I/O	Slow clock input
R10	SLOW_CLK_OUT	IO	Slow clock output
R11	VSS	—	Ground
R12	SCL	I/O	IIC bus serial clock
R13	COM_PWM	O	Common PWM output (Not used (Open))
R14	n.c.	—	Not used (Open)
R15	BORDER1	O	Border control

MAIN BOARD IC601 CXD3452GA (MS I/F CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	VDD0	—	2.9V DC input
2	MODE0	I	Mode select (Not used (Fixed to “L”))
3	MODE1	I	Mode select (Not used (Fixed to “L”))
4	TRST	I	Not used (Fixed to “L”)
5	XRS	I	Reset input
6	XINT	O	Interrupt request
7	VSS0	—	Ground
8	XDRQ0	O	DMA request (Not used (Open))
9	XDRQ1	O	DMA request (Not used (Open))
10	AB2	I	Address bus
11	AB3	I	Address bus
12	AB4	I	Address bus
13	VDD1	—	2.9V DC input
14	AB5	I	Address bus
15	AB6	I	Address bus
16	AB7	I	Address bus
17	AB8	I	Address bus
18	XDAK0	I	DMA acknowledge input (Not used (Fixed to “L”))
19	XDAK1	I	DMA acknowledge input (Not used (Fixed to “L”))
20	VSS1	—	Ground
21	XCS	I	Chip select input
22	XRD	I	Read enable input
23	XWR	I	Write enable input
24	HCKI	I	System clock input
25	VDD2	—	2.9V DC input
26	XMSCKI	I	MS communication clock input
27	DB0	I/O	32 bits data bus
28	DB1	I/O	32 bits data bus
29	DB2	I/O	32 bits data bus
30	VSS2	—	Ground
31	DB3	I/O	32 bits data bus
32	DB4	I/O	32 bits data bus
33	DB5	I/O	32 bits data bus
34	DB6	I/O	32 bits data bus
35	VDD3	—	2.9V DC input
36	DB7	I/O	32 bits data bus
37	DB8	I/O	32 bits data bus
38	DB9	I/O	32 bits data bus
39	DB10	I/O	32 bits data bus
40	VSS3	—	Ground
41	DB11	I/O	32 bits data bus
42	DB12	I/O	32 bits data bus
43	DB13	I/O	32 bits data bus
44	DB14	I/O	32 bits data bus
45	VDD4	—	2.9V DC input
46	DB15	I/O	32 bits data bus
47	DB16	I/O	32 bits data bus
48	DB17	I/O	32 bits data bus

Pin No.	Pin Name	I/O	Description
49	DB18	I/O	32 bits data bus
50	VSS4	—	Ground
51	DB19	I/O	32 bits data bus
52	DB20	I/O	32 bits data bus
53	DB21	I/O	32 bits data bus
54	DB22	I/O	32 bits data bus
55	VDD5	—	2.9V DC input
56	DB23	I/O	32 bits data bus
57	DB24	I/O	32 bits data bus
58	DB25	I/O	32 bits data bus
59	DB26	I/O	32 bits data bus
60	VSS5	—	Ground
61	DB27	I/O	32 bits data bus
62	DB28	I/O	32 bits data bus
63	DB29	I/O	32 bits data bus
64	DB30	I/O	32 bits data bus
65	VDD6	—	2.9V DC input
66	DB31	I/O	32 bits data bus
67	CD0	I	Not used (Open)
68	CD1	I	Not used (Open)
69	CD2	I	Not used (Open)
70	VSS6	—	Ground
71	CD3	I	Not used (Open)
72	CD4	I	Not used (Open)
73	CD5	I	Not used (Open)
74	CD6	I	Not used (Open)
75	CD7	I	Not used (Open)
76	VDD7	—	2.9V DC input
77	HSYNC	I	Not used (Open)
78	VSYNC	I	Not used (Open)
79	CCKI	I	Not used (Open)
80	M0D0	I/O	MS0 data bus
81	M0D1	I/O	MS0 data bus
82	VSS7	—	Ground
83	M0D2	I/O	MS0 data bus
84	M0D3	I/O	MS0 data bus
85	M0BS	O	MS0 bus state
86	VDD8	—	2.9V DC input
87	M0CKO	O	MS0 clock output
88	M1D0	I/O	Not used (Open)
89	M1D1	I/O	Not used (Open)
90	VSS8	—	Ground
91	M1D2	I/O	Not used (Open)
92	M1D3	I/O	Not used (Open)
93	M1BS	O	Not used (Open)
94	VDD9	—	2.9V DC input
95	M1CKO	O	Not used (Open)
96	KRST	O	Not used (Open)
97	KRB	I	Not used (Open)

Pin No.	Pin Name	I/O	Description
98	KDI	I	Not used (Open)
99	VSS9	—	Ground
100	KDO	O	Not used (Open)
101	KCS	O	Not used (Open)
102	KCKO	O	Not used (Open)
103	PIO0	I/O	Not used (Open)
104	VDD10	—	2.9V DC input
105	PIO1	I/O	Not used (Open)
106	PIO2	I/O	Not used (Open)
107	PIO3	I/O	Not used (Open)
108	PIO4	I/O	Not used (Open)
109	VSS10	—	Ground
110	PIO5	I/O	Not used (Open)
111	PIO6	I/O	Not used (Open)
112	PIO7	I/O	Not used (Open)

MAIN BOARD IC201 R5C807 (SD I/F CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	VCCEN	O	Not used (Open)
2	GPIO	I/O	Not used (Open)
3	LED	O	Not used (Open)
4	HWSPND	I	Hardware suspend input
5	RWMODE	I	Read-write timing mode select (Not used (Fixed to “H”))
6	WAMODE	I	WAIT/DTACK mode select (pull-up: WAIT, pull-down: DTACK)
7	LTLEN	I	Little endian mode select (Not used (Fixed to “L”))
8	TEST	I	Test mode (Not used (Fixed to “L”))
9	CKIN	I	Clock input
10	GND	—	Ground
11	RST	I	Reset input
12	VCC_ROUT	—	1.8V DC input
13	VCC_RIN	—	3.1V DC input
14	REGEN	I	Regulator enable (Not used (Fixed to “L”))
15	INT	O	Interrupt request output
16	WAIT/DTACK	O	Wait and Data acknowledge output (refer to pin6)(Not used (Open))
17	WR	I	Write enable input
18	RD	I	Read enable input
19	EB1	I	Enable byte (fixed low)
20	EB2	I	Enable byte (fixed low)
21	VCC_HOST	—	3.1V DC input
22	CS	I	Chip select input
23	D15	I/O	16 bits data bus
24	D14	I/O	16 bits data bus
25	D13	I/O	16 bits data bus
26	D12	I/O	16 bits data bus
27	D11	I/O	16 bits data bus
28	D10	I/O	16 bits data bus
29	D9	I/O	16 bits data bus
30	D8	I/O	16 bits data bus
31	D7	I/O	16 bits data bus
32	D6	I/O	16 bits data bus
33	D5	I/O	16 bits data bus
34	GND	—	Ground
35	D4	I	16 bits data bus
36	D3	I	16 bits data bus
37	D2	I	16 bits data bus
38	D1	I	16 bits data bus
39	D0	I	16 bits data bus
40	BS	I	Bus cycle start (Not used (Fixed to “L”))
41	A22	I	23 bits address bus (Not used (Fixed to “L”))
42	VCC_ROUT	—	1.8V DC input
43	A21	I	23 bits address bus (Not used (Fixed to “L”))
44	A20	I	23 bits address bus (Not used (Fixed to “L”))
45	A19	I	23 bits address bus (Not used (Fixed to “L”))
46	A18	I	23 bits address bus (Not used (Fixed to “L”))
47	A17	I	23 bits address bus (Not used (Fixed to “L”))
48	VCC_HOST	—	3.1V DC input

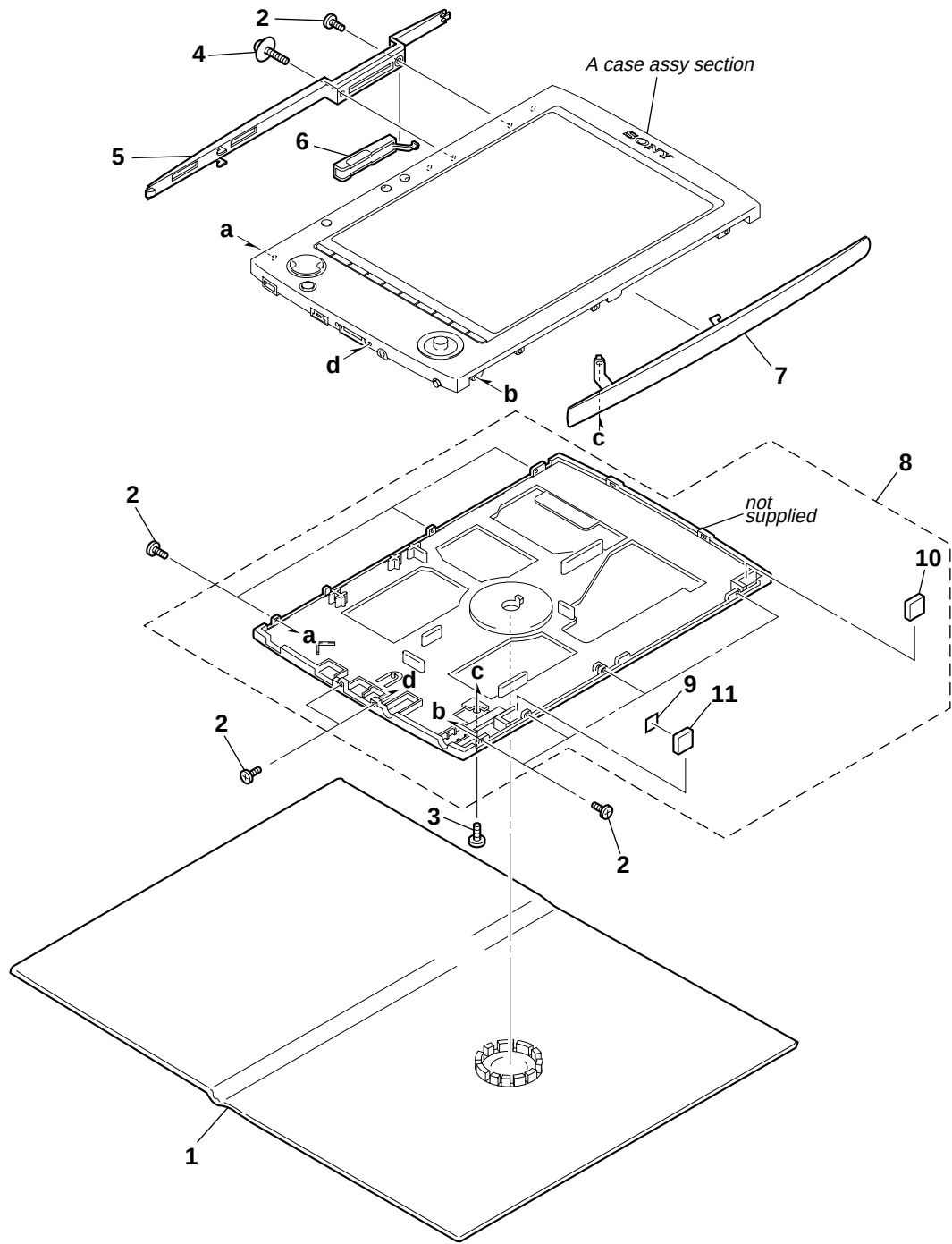
Pin No.	Pin Name	I/O	Description
49	A16	I	23 bits address bus (Not used (Fixed to “L”))
50	A15	I	23 bits address bus
51	A14	I	23 bits address bus
52	A13	I	23 bits address bus
53	A12	I	23 bits address bus
54	A11	I	23 bits address bus
55	A10	I	23 bits address bus
56	A9	I	23 bits address bus
57	A8	I	23 bits address bus
58	A7	I	23 bits address bus
59	A6	I	23 bits address bus
60	A5	I	23 bits address bus
61	A4	I	23 bits address bus
62	A3	I	23 bits address bus
63	A2	I	23 bits address bus
64	A1	I	23 bits address bus
65	A0	I	23 bits address bus (Not used (Fixed to “L”))
66	GND	—	Ground
67	MDIO26	I	Card detect switch from SD slot
68	MDIO03	I/O	4 bits data bus for SD card
69	MDIO11	I/O	Not used (Open)
70	MDIO04	I/O	Not used (Open)
71	MDIO12	I/O	Not used (Open)
72	MDIO05	I/O	Not used (Open)
73	VCC_3V	—	3.1V DC input
74	MDIO13	I/O	Not used (Open)
75	MDIO06	I/O	Not used (Open)
76	MDIO14	I/O	Not used (Open)
77	MDIO07	I/O	Not used (Open)
78	MDIO15	I/O	Not used (Open)
79	MDIO21	O	Not used (Open)
80	MDIO22	O	Not used (Open)
81	MDIO19	O	Not used (Open)
82	MDIO20	O	Not used (Open)
83	MDIO23	I	Not used (Open)
84	MDIO24	O	Not used (Open)
85	MDIO25	I	Write protect switch from SD slot
86	VCC_ROUT	—	1.8V DC input
87	MDIO18	O	Not used (Open)
88	MDIO17	O	Not used (Open)
89	MDIO16	O	Serial clock for SD card
90	GND	—	Ground
91	MDIO00	I/O	4 bits data bus for SD card
92	MDIO01	I/O	4 bits data bus for SD card
93	MDIO08	I/O	Not used
94	MDIO02	I/O	4 bits data bus for SD card
95	MDIO09	I/O	Not used
96	VCC_3V	—	3.1V DC input
97	MDIO10	I/O	Command signal for SD card

Pin No.	Pin Name	I/O	Description
98	MDIO27	I	Not used (Open)
99	MDIO28	I	Not used (Open)
100	MDIO29	I	Not used (Open)

SECTION 7
EXPLODED VIEWS

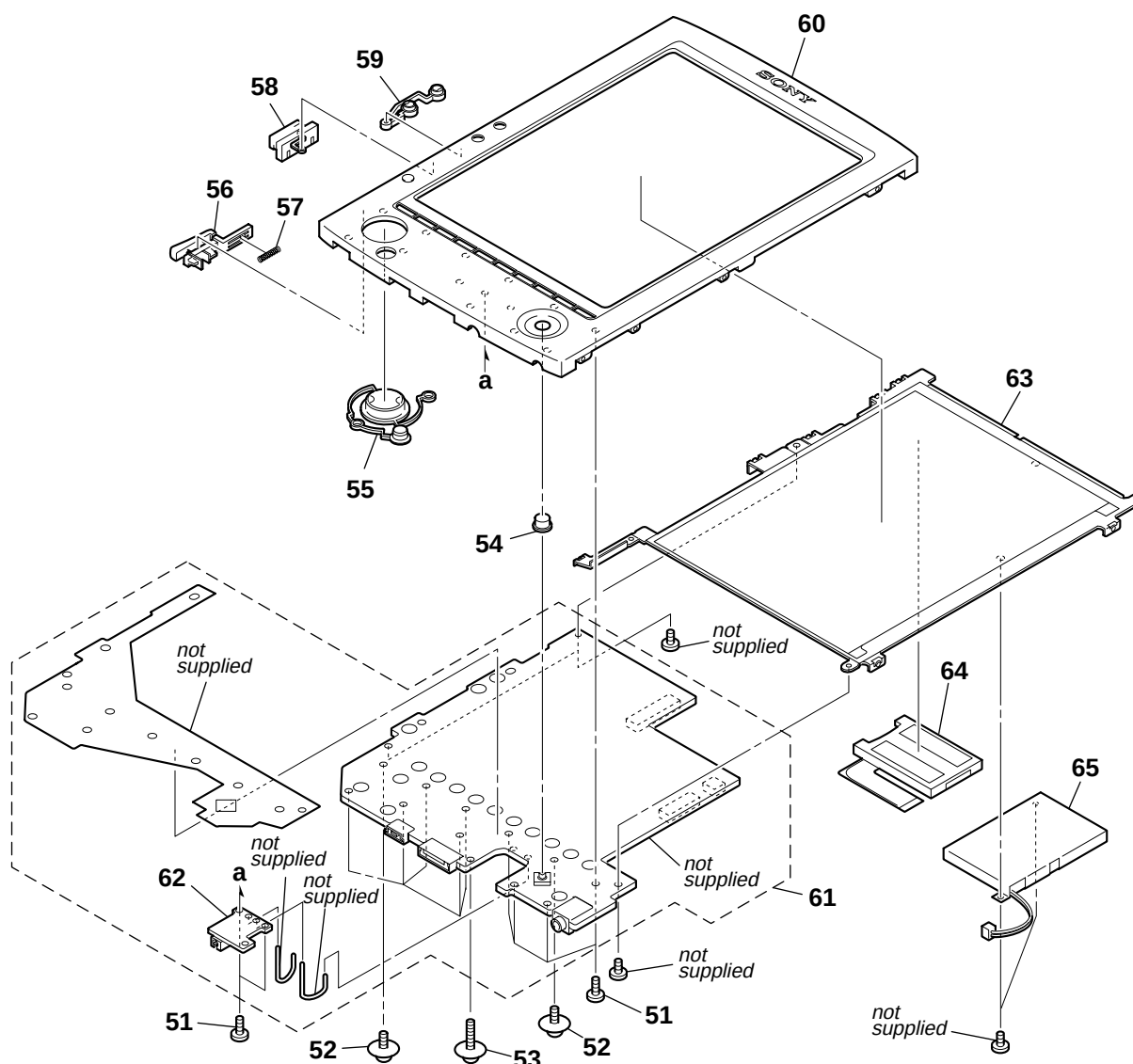
- NOTE:
- XX and -X mean standardized parts, so they may have some difference from the original one.
 - Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - The mechanical parts with no reference number in the exploded views are not supplied.

7-1. OVERALL ASSY SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	2-673-235-01	COVER, SOFT		7	2-661-915-01	PLATE (R), ORNAMENTAL	
2	2-697-314-01	FASTENER (1.4X3)		8	A-1175-892-A	CASE ASSY, B	
3	3-080-204-01	SCREW, TAPPING, P2		9	2-682-268-01	SHEET (MAGNET)	
4	3-729-013-41	SCREW (M1.4X3.5), WASHERHEAD (+P)		10	2-662-230-01	MAGNET	
5	2-661-914-01	PLATE (L), ORNAMENTAL		11	2-662-230-11	MAGNET	
6	X-2108-579-1	SLOT ASSY, MEMORY					

7-2. A CASE ASSY SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-348-998-81	SCREW (M1.4)		59	2-661-912-01	KEY TOP (3)	
52	3-318-201-81	SCREW (B) (1.4X8), TAPPING		60	X-2149-317-1	A CASE ASSY	
53	3-729-013-41	SCREW (M1.4X3.5), WASHERHEAD (+P)		61	X-2149-314-1	MAIN BOARD, COMPLETE	
54	2-661-918-01	KEY TOP (4)		62	1-870-174-11	DC BOARD	
55	2-661-911-01	KEY TOP (2)		63	X-2149-316-1	INK INDICATOR (COG) ELEMENT ASSY	
56	2-661-913-01	KEY, POWER		64	1-870-175-11	MS FLEXIBLE BOARD	
57	3-260-808-01	SPRING, COMPRESSION		65	X-2149-315-1	LITHIUM ION STORAGE BATTERY ASSY	
58	2-666-503-01	KEY TOP (5)					

Refer to the "NOTES REPLACEMENT OF INK INDICATOR ELEMENT ASSY, MAIN BOARD and FLASH ROM (IC1611)", when replacement of MAIN BOARD and INK INDICATOR ELEMENT ASSY.

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
 - -XX and -X mean standardized parts, so they may have some difference from the original one.
 - RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - SEMICONDUCTORS
In each case, u: μ , for example:
uA. . : μ A. . uPA. . : μ PA. .
uPB. . : μ PB. . uPC. . : μ PC. .
uPD. . : μ PD. .
• CAPACITORS
uF: μ F
• COILS
uH: μ H
- When indicating parts by reference number, please include the board name.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

 - Accessories are given in the last of this parts list.

Ref. No.	Part No.	Description	Remark			
	1-870-174-11	DC BOARD	*****			
		< JACK >				
J402	1-779-880-11	JACK, DC (POLARITY UNIFIED TYPE)	(DC IN 5.2V)			

	X-2149-314-1	MAIN BOARD, COMPLETE	*****			
		< CAPACITOR >				
C103	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	
C104	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C107	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V	
C108	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V	
C109	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V	
C110	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C111	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	
C112	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C113	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C114	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C115	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	
C116	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C117	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	
C118	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	
C119	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	
C120	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C121	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C122	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C123	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	
C124	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C127	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C128	1-137-859-11	TANTAL. CHIP	220uF	20%	4V	
C129	1-137-859-11	TANTAL. CHIP	220uF	20%	4V	
C201	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C202	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	
C203	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C204	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C205	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C206	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C207	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C208	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C209	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	
C210	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C211	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C212	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	

Ref. No.	Part No.	Description	Remark			
C213	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C401	1-100-672-11	CERAMIC CHIP	10uF	20%	16V	
C402	1-100-672-11	CERAMIC CHIP	10uF	20%	16V	
C403	1-100-672-11	CERAMIC CHIP	10uF	20%	16V	
C404	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C405	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V	
C406	1-100-672-11	CERAMIC CHIP	10uF	20%	16V	
C407	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V	
C408	1-100-672-11	CERAMIC CHIP	10uF	20%	16V	
C411	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	
C412	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	
C413	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V	
C416	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	
C417	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	
C419	1-100-506-91	CERAMIC CHIP	1uF	20%	6.3V	
C420	1-100-506-91	CERAMIC CHIP	1uF	20%	6.3V	
C421	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C422	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C424	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C425	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C426	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C427	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C449	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C601	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	
C602	1-100-506-91	CERAMIC CHIP	1uF	20%	6.3V	
C603	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C604	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C605	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C606	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C607	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C608	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C609	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C610	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C611	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C612	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C613	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C614	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	
C615	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C616	1-100-159-91	CERAMIC CHIP	22uF	10%	6.3V	
C617	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C618	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C619	1-100-506-91	CERAMIC CHIP	1uF	20%	6.3V	
C620	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C622	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V	
C623	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V	

Refer to the “NOTES REPLACEMENT OF INK INDICATOR ELEMENT ASSY, MAIN BOARD and FLASH ROM (IC1611)”, when replacement of MAIN BOARD.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C801	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	C1033	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C802	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V	C1034	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C803	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V						
C804	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V	C1036	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C805	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V	C1101	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
						C1102	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C806	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1103	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C807	1-164-848-11	CERAMIC CHIP	8PF	0.5PF	50V	C1104	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C808	1-164-848-11	CERAMIC CHIP	8PF	0.5PF	50V						
C809	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1105	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C810	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1106	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
						C1107	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C811	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1108	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C812	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V	C1109	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C813	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V						
C814	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C1110	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C815	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	C1112	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
						C1113	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C817	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C1114	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C818	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C1115	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C819	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V						
C820	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C1120	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C821	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C1121	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
						C1124	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C822	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C1125	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C823	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C1200	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C824	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V						
C825	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C1201	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C826	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	C1202	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
						C1203	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C838	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V	C1204	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C901	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1205	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C902	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V						
C903	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1206	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C904	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1208	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
						C1209	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C905	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1210	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C907	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1211	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1003	1-110-569-11	TANTAL. CHIP	47uF	20%	6.3V						
C1004	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1212	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1005	1-128-964-91	TANTAL. CHIP	100uF	20%	6.3V	C1213	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
						C1214	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1006	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1217	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1007	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1218	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1008	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V						
C1009	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1219	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C1010	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1220	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
						C1221	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1011	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1601	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C1012	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1602	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C1013	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V						
C1014	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1603	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1015	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1604	1-135-960-91	CERAMIC CHIP	10uF	10%	25V
						C1605	1-135-960-91	CERAMIC CHIP	10uF	10%	25V
C1016	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1606	1-135-960-91	CERAMIC CHIP	10uF	10%	25V
C1017	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1607	1-100-506-91	CERAMIC CHIP	1uF	20%	6.3V
C1018	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V						
C1019	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1608	1-115-581-11	TANTAL. CHIP	100uF	20%	16V
C1020	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1609	1-115-581-11	TANTAL. CHIP	100uF	20%	16V
						C1610	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C1021	1-164-846-11	CERAMIC CHIP	6PF	0.5PF	50V	C1611	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C1022	1-164-846-11	CERAMIC CHIP	6PF	0.5PF	50V	C1612	1-165-887-91	CERAMIC CHIP	0.22uF	10%	6.3V
C1023	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V						
C1024	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1613	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C1028	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1614	1-100-162-91	CERAMIC CHIP	1uF		50V
						C1615	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C1029	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1616	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C1030	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C1617	1-164-878-11	CERAMIC CHIP	150PF	5%	50V
C1031	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V						

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Ref. No.	Part No.	Description	Remark	
C1618	1-100-162-91	CERAMIC CHIP 1uF	50V	
C1619	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1621	1-164-156-11	CERAMIC CHIP 0.1uF		25V
C1622	1-164-156-11	CERAMIC CHIP 0.1uF		25V
C1623	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1624	1-164-850-11	CERAMIC CHIP 10PF	0.5PF	50V
C1626	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1627	1-100-848-91	TANTAL. CHIP 33uF	20%	25V
C1629	1-100-848-91	TANTAL. CHIP 33uF	20%	25V
C1631	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1632	1-100-506-91	CERAMIC CHIP 1uF	20%	6.3V
C1633	1-115-339-11	CERAMIC CHIP 0.1uF	10%	50V
C1634	1-100-352-91	CERAMIC CHIP 1uF	20%	16V
C1635	1-100-415-11	CERAMIC CHIP 0.47uF	10%	6.3V
C1636	1-119-869-91	CERAMIC CHIP 10uF		35V
C1637	1-100-506-91	CERAMIC CHIP 1uF	20%	6.3V
C1638	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1639	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1640	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1641	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1642	1-100-505-91	CERAMIC CHIP 0.1uF	20%	16V
C1643	1-100-505-91	CERAMIC CHIP 0.1uF	20%	16V
C1644	1-100-505-91	CERAMIC CHIP 0.1uF	20%	16V
C1645	1-164-156-11	CERAMIC CHIP 0.1uF		25V
C1646	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1647	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1648	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1649	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1650	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1651	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1652	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1653	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1654	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1655	1-164-156-11	CERAMIC CHIP 0.1uF		25V
C1656	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1657	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1658	1-165-989-11	CERAMIC CHIP 10uF	10%	6.3V
C1660	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1661	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1662	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1663	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1664	1-100-506-91	CERAMIC CHIP 1uF	20%	6.3V
C1665	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1666	1-128-964-91	TANTAL. CHIP 100uF	20%	6.3V
C1669	1-164-858-11	CERAMIC CHIP 22PF	5%	50V
C1679	1-100-567-81	CERAMIC CHIP 10000PF	10%	25V
C1683	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
C1684	1-164-156-11	CERAMIC CHIP 0.1uF		25V
C1685	1-164-156-11	CERAMIC CHIP 0.1uF		25V
C1686	1-125-777-11	CERAMIC CHIP 0.1uF	10%	10V
< CONNECTOR >				
CN401	1-770-619-11	PIN, CONNECTOR 2P		
CN402	1-816-943-22	CONNECTOR		
CN602	1-817-368-51	CONNECTOR, FFC/FPC (ZIF) 24P		
CN901	1-816-956-21	CONNECTOR (SQUARE TYPE) (USB) 5P		
CN1601	1-817-544-61	CONNECTOR, FPC (ZIF) 39P		

Ref. No.	Part No.	Description	Remark
< DIODE >			
D101	8-719-069-55	DIODE UDZSTE-175.6B	
D102	8-719-069-55	DIODE UDZSTE-175.6B	
D401	8-719-989-03	DIODE DAN222	
D402	8-719-069-55	DIODE UDZSTE-175.6B	
D420	8-719-085-70	DIODE CRS01 (TE85R)	
D802	8-719-083-42	DIODE HN2S01FU-TE85R	
D803	6-501-257-01	DIODE CL-197TLY-CD-T	
D805	8-719-077-09	DIODE CL-196HR-CD-T	
D806	8-719-056-48	DIODE 1SS388 (TPL3)	
D808	6-501-052-02	DIODE CL-197HB1-D-T	
D809	6-501-052-02	DIODE CL-197HB1-D-T	
D1601	6-500-823-01	DIODE BAT760-115	
D1602	8-719-024-71	DIODE 1SS362-TE85L	
D1603	6-500-823-01	DIODE BAT760-115	
D1604	6-500-823-01	DIODE BAT760-115	
D1605	8-719-024-71	DIODE 1SS362-TE85L	
D1607	8-719-024-71	DIODE 1SS362-TE85L	
D1608	8-719-056-23	DIODE MA2S111-(K8).SO	
D1609	8-719-056-23	DIODE MA2S111-(K8).SO	
D1610	8-719-056-48	DIODE 1SS388 (TPL3)	
D1613	8-719-024-71	DIODE 1SS362-TE85L	
< IC >			
IC101	6-702-290-01	IC AK4365VN-L	
IC107	8-759-649-50	IC SN74AHC1GU04DCKR	
IC108	8-759-649-46	IC SN74AHC1G08DCKR	
IC201	6-709-523-01	IC R5C807	
IC202	8-759-649-46	IC SN74AHC1G08DCKR	
IC203	8-759-669-42	IC SN74LVC138APWR-12	
IC401	6-708-160-01	IC SN412005RHLLR	
IC402	6-709-526-01	IC XC9226A296MR	
IC403	6-709-521-01	IC XC9226A1M6MR	
IC404	6-702-148-01	IC XC61CN2702NR	
IC405	8-759-824-57	IC XC61CN3002NR	
IC406	6-709-520-01	IC XC6215B292NR	
IC407	8-759-698-31	IC TC7WH74FK (TE85R)	
IC408	6-709-522-01	IC XC61CC3202NR	
IC601	8-752-409-91	IC CXD3452GA	
IC602	6-708-467-01	IC XC6213B312NR	
IC603	8-759-649-50	IC SN74AHC1GU04DCKR	
IC604	8-759-649-46	IC SN74AHC1G08DCKR	
IC801	not supplied	IC HD64F38004FPV-V196	
IC802	6-705-886-01	IC XC61CN2502NR	
IC803	6-709-528-01	IC S882150AMH-M2ZTFG	
IC903	6-705-918-01	IC ISP1105W.118	
IC904	8-759-649-43	IC SN74AHC1G00DCKR	
IC1001	6-705-206-01	IC MC9328MXLVP20R2	
IC1101	6-705-485-01	IC TC7MP245FK (EL)	
IC1102	6-705-485-01	IC TC7MP245FK (EL)	
IC1103	6-705-485-01	IC TC7MP245FK (EL)	
IC1104	6-705-485-01	IC TC7MP245FK (EL)	
IC1105	8-759-523-92	IC TC74VHC21FT (EL)	
IC1106	6-707-231-01	IC K9F1G08U0A-PCB0T	
IC1108	6-704-352-01	IC SN74LVC2G32DCUR	
* IC1111	8-759-649-45	IC SN74AHC1G04DCKR	
IC1112	8-759-679-53	IC SN74LVC244APWR	

IC801 on MAIN board cannot be replaced individually. Replace it with "MAIN BOARD, COMPLETE" for service.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
IC1113	8-759-679-53	IC SN74LVC244APWR		Q405	8-729-037-52	TRANSISTOR	2SD2216J-QR (TX).SO
IC1116	6-703-589-01	IC SN74LVC1G125DCKR		Q406	8-729-054-48	TRANSISTOR	UP04601008S0
IC1117	6-703-589-01	IC SN74LVC1G125DCKR		Q472	8-729-047-68	TRANSISTOR	SSM3K03FE (TPL3)
IC1201	6-710-041-01	IC K4M561633G-BN75T		Q602	6-550-254-01	TRANSISTOR	2SA1832F-GR (TPL3)
IC1202	6-710-041-01	IC K4M561633G-BN75T		Q801	6-550-747-01	TRANSISTOR	3LP01S-K-TL-E
IC1203	not supplied	IC S29AL016D90TFI020H-PRS01		Q802	8-729-047-68	TRANSISTOR	SSM3K03FE (TPL3)
IC1601	6-708-472-01	IC XC6215B312NR		Q804	8-729-928-34	TRANSISTOR	DTA124EE-TL
IC1602	6-705-480-01	IC LT3467ES6#TR		Q901	8-729-928-34	TRANSISTOR	DTA124EE-TL
IC1603	8-759-337-40	IC NJM2904V (TE2)		Q1602	8-729-037-52	TRANSISTOR	2SD2216J-QR (TX).SO
IC1605	6-705-481-01	IC LT1931ES5#TR		Q1604	6-550-761-01	TRANSISTOR	SSM6J07FU (TE85R)
IC1606	8-759-675-54	IC TC7W53FK (TE85R)		Q1605	8-729-037-52	TRANSISTOR	2SD2216J-QR (TX).SO
IC1607	8-759-337-40	IC NJM2904V (TE2)		Q1606	8-729-037-52	TRANSISTOR	2SD2216J-QR (TX).SO
IC1610	6-705-491-01	IC APOLLO1-18		Q1609	6-550-254-01	TRANSISTOR	2SA1832F-GR (TPL3)
★ IC1611	6-806-417-01	IC S29AL004D90BFI010E-LUT-01		Q1614	8-729-054-48	TRANSISTOR	UP04601008S0
IC1612	6-709-527-01	IC LY62L12816GL-55LL		Q1622	8-729-023-89	TRANSISTOR	2SJ305 (TE85L)
IC1613	6-709-527-01	IC LY62L12816GL-55LL		< RESISTOR >			
IC1615	8-759-544-17	IC LM75C1MMX-3 NOPB		R101	1-218-977-11	RES-CHIP	100K 5% 1/16W
< JACK >				R102	1-218-989-11	RES-CHIP	1M 5% 1/16W
J101	1-816-945-41	JACK (C)		R103	1-218-961-11	RES-CHIP	4.7K 5% 1/16W
< COIL >				R104	1-218-961-11	RES-CHIP	4.7K 5% 1/16W
L102	1-469-528-91	INDUCTOR	100uH	R105	1-218-990-81	SHORT CHIP	0
L103	1-469-526-91	INDUCTOR	22uH	R106	1-218-965-11	RES-CHIP	10K 5% 1/16W
L201	1-469-525-91	INDUCTOR	10uH	R107	1-218-929-11	RES-CHIP	10 5% 1/16W
L402	1-456-630-22	INDUCTOR	6.8uH	R108	1-218-929-11	RES-CHIP	10 5% 1/16W
L403	1-456-630-22	INDUCTOR	6.8uH	R109	1-218-929-11	RES-CHIP	10 5% 1/16W
L601	1-216-295-91	SHORT CHIP	0	R110	1-218-949-11	RES-CHIP	470 5% 1/16W
L602	1-469-528-91	INDUCTOR	100uH	R116	1-218-947-11	RES-CHIP	330 5% 1/16W
L603	1-469-525-91	INDUCTOR	10uH	R117	1-218-941-81	RES-CHIP	100 5% 1/16W
L801	1-216-295-91	SHORT CHIP	0	* R120	1-469-230-21	BEAD, FERRITE (1005)	
L901	1-469-527-91	INDUCTOR	47uH	* R122	1-469-230-21	BEAD, FERRITE (1005)	
L1002	1-469-525-91	INDUCTOR	10uH	R129	1-218-990-81	SHORT CHIP	0
L1003	1-469-525-91	INDUCTOR	10uH	* R130	1-469-230-21	BEAD, FERRITE (1005)	
L1004	1-469-527-91	INDUCTOR	47uH	R132	1-218-965-11	RES-CHIP	10K 5% 1/16W
L1101	1-469-526-91	INDUCTOR	22uH	R133	1-218-965-11	RES-CHIP	10K 5% 1/16W
L1102	1-469-526-91	INDUCTOR	22uH	R136	1-218-965-11	RES-CHIP	10K 5% 1/16W
L1201	1-469-526-91	INDUCTOR	22uH	R141	1-164-943-81	CERAMIC CHIP	0.01uF 10% 16V
L1202	1-469-526-91	INDUCTOR	22uH	R214	1-218-990-81	SHORT CHIP	0
L1601	1-469-525-91	INDUCTOR	10uH	R215	1-218-990-81	SHORT CHIP	0
L1602	1-469-525-91	INDUCTOR	10uH	R216	1-218-990-81	SHORT CHIP	0
L1603	1-469-869-21	INDUCTOR (EMI FERRITE) (2012)		R217	1-218-977-11	RES-CHIP	100K 5% 1/16W
L1604	1-469-869-21	INDUCTOR (EMI FERRITE) (2012)		R219	1-218-990-81	SHORT CHIP	0
L1606	1-469-527-91	INDUCTOR	47uH	R220	1-218-990-81	SHORT CHIP	0
L1611	1-456-631-21	INDUCTOR	10uH	R226	1-218-990-81	SHORT CHIP	0
L1612	1-456-631-21	INDUCTOR	10uH	R229	1-218-990-81	SHORT CHIP	0
< FUSE >				R232	1-218-990-81	SHORT CHIP	0
△ PS401	1-576-415-21	FUSE 2A 32V		R241	1-218-941-81	RES-CHIP	100 5% 1/16W
< TRANSISTOR >				R247	1-218-941-81	RES-CHIP	100 5% 1/16W
Q104	6-550-254-01	TRANSISTOR	2SA1832F-GR (TPL3)	R401	1-218-977-11	RES-CHIP	100K 5% 1/16W
Q105	8-729-037-52	TRANSISTOR	2SD2216J-QR (TX).SO	R402	1-218-977-11	RES-CHIP	100K 5% 1/16W
Q401	8-729-037-52	TRANSISTOR	2SD2216J-QR (TX).SO	R403	1-218-977-11	RES-CHIP	100K 5% 1/16W
Q402	6-550-354-01	TRANSISTOR	RTQ035P02TR	R404	1-218-973-11	RES-CHIP	47K 5% 1/16W
Q403	6-550-254-01	TRANSISTOR	2SA1832F-GR (TPL3)	R405	1-208-720-11	METAL CHIP	36K 0.5% 1/16W
Q404	8-729-928-34	TRANSISTOR	DTA124EE-TL	R406	1-208-703-11	METAL CHIP	6.8K 0.5% 1/16W
				R407	1-208-911-11	METAL CHIP	10K 0.5% 1/16W
				R408	1-218-985-11	RES-CHIP	470K 5% 1/16W
				R409	1-218-990-81	SHORT CHIP	0

IC1203 on MAIN board cannot be replaced individually. Replace it with "MAIN BOARD, COMPLETE" for service.

★ Refer to the "NOTES REPLACEMENT OF INK INDICATOR ELEMENT ASSY, MAIN BOARD and FLASH ROM (IC1611)", when replacement of IC1611.

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MAIN

Ref. No.	Part No.	Description	Remark			
R411	1-218-990-81	SHORT CHIP	0			
R413	1-218-981-11	RES-CHIP	220K	5%	1/16W	
R414	1-218-981-11	RES-CHIP	220K	5%	1/16W	
R415	1-218-973-11	RES-CHIP	47K	5%	1/16W	
R416	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R417	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R418	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
R419	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R420	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R421	1-208-893-11	METAL CHIP	1.8K	0.5%	1/16W	
R422	1-218-990-81	SHORT CHIP	0			
R423	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R424	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R425	1-218-969-11	RES-CHIP	22K	5%	1/16W	
R426	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R427	1-218-945-11	RES-CHIP	220	5%	1/16W	
R428	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R429	1-220-804-11	RES-CHIP	2.2M	5%	1/16W	
R430	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R475	1-218-969-11	RES-CHIP	22K	5%	1/16W	
R477	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R602	1-218-990-81	SHORT CHIP	0			
R623	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R624	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
R629	1-218-989-11	RES-CHIP	1M	5%	1/16W	
R630	1-218-990-81	SHORT CHIP	0			
R651	1-234-582-21	FILTER, CHIP EMI				
R652	1-234-582-21	FILTER, CHIP EMI				
R653	1-234-582-21	FILTER, CHIP EMI				
R654	1-234-582-21	FILTER, CHIP EMI				
R656	1-234-582-21	FILTER, CHIP EMI				
R657	1-234-582-21	FILTER, CHIP EMI				
R658	1-234-582-21	FILTER, CHIP EMI				
R659	1-234-582-21	FILTER, CHIP EMI				
R660	1-234-582-21	FILTER, CHIP EMI				
R661	1-234-582-21	FILTER, CHIP EMI				
R662	1-234-582-21	FILTER, CHIP EMI				
R663	1-234-582-21	FILTER, CHIP EMI				
R682	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R683	1-218-941-81	RES-CHIP	100	5%	1/16W	
R685	1-218-947-11	RES-CHIP	330	5%	1/16W	
R686	1-218-947-11	RES-CHIP	330	5%	1/16W	
R687	1-218-947-11	RES-CHIP	330	5%	1/16W	
R689	1-218-941-81	RES-CHIP	100	5%	1/16W	
R690	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R801	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R802	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R803	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R804	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R805	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R806	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R807	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R808	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R809	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R810	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R811	1-218-941-81	RES-CHIP	100	5%	1/16W	
R812	1-218-990-81	SHORT CHIP	0			
R813	1-218-941-81	RES-CHIP	100	5%	1/16W	

Ref. No.	Part No.	Description	Remark			
R814	1-218-953-11	RES-CHIP	1K	5%	1/16W	
R815	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R816	1-218-953-11	RES-CHIP	1K	5%	1/16W	
R817	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R818	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R819	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R820	1-218-941-81	RES-CHIP	100	5%	1/16W	
R821	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R822	1-208-912-11	METAL CHIP	11K	0.5%	1/16W	
R823	1-218-941-81	RES-CHIP	100	5%	1/16W	
R824	1-218-941-81	RES-CHIP	100	5%	1/16W	
R825	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R826	1-208-715-11	METAL CHIP	22K	0.5%	1/16W	
R827	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R828	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R829	1-218-959-11	RES-CHIP	3.3K	5%	1/16W	
R830	1-218-941-81	RES-CHIP	100	5%	1/16W	
R831	1-218-941-81	RES-CHIP	100	5%	1/16W	
R832	1-218-953-11	RES-CHIP	1K	5%	1/16W	
R833	1-218-989-11	RES-CHIP	1M	5%	1/16W	
R834	1-218-953-11	RES-CHIP	1K	5%	1/16W	
R835	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R836	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R837	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R840	1-218-941-81	RES-CHIP	100	5%	1/16W	
R842	1-218-941-81	RES-CHIP	100	5%	1/16W	
R849	1-218-953-11	RES-CHIP	1K	5%	1/16W	
R850	1-218-953-11	RES-CHIP	1K	5%	1/16W	
R851	1-218-990-81	SHORT CHIP	0			
R856	1-218-945-11	RES-CHIP	220	5%	1/16W	
R857	1-218-941-81	RES-CHIP	100	5%	1/16W	
R859	1-218-945-11	RES-CHIP	220	5%	1/16W	
R861	1-218-949-11	RES-CHIP	470	5%	1/16W	
R862	1-218-949-11	RES-CHIP	470	5%	1/16W	
R901	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R902	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R903	1-218-976-11	RES-CHIP	82K	5%	1/16W	
R906	1-218-990-81	SHORT CHIP	0			
R907	1-218-990-81	SHORT CHIP	0			
R908	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R909	1-218-990-81	SHORT CHIP	0			
R910	1-218-990-81	SHORT CHIP	0			
R911	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R912	1-218-935-11	RES-CHIP	33	5%	1/16W	
R913	1-218-935-11	RES-CHIP	33	5%	1/16W	
R914	1-218-955-11	RES-CHIP	1.5K	5%	1/16W	
R915	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	
R920	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R921	1-218-976-11	RES-CHIP	82K	5%	1/16W	
R1602	1-216-864-11	SHORT CHIP	0			
R1607	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R1608	1-218-941-81	RES-CHIP	100	5%	1/16W	
R1609	1-220-200-81	RES-CHIP	30K	5%	1/16W	
R1610	1-218-973-11	RES-CHIP	47K	5%	1/16W	
R1611	1-218-989-11	RES-CHIP	1M	5%	1/16W	
R1612	1-218-933-11	RES-CHIP	22	5%	1/16W	
R1613	1-218-960-11	RES-CHIP	3.9K	5%	1/16W	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R1614	1-218-953-11	RES-CHIP	1K	5%	1/16W	R1710	1-218-990-81	SHORT CHIP	0		
R1615	1-218-987-11	RES-CHIP	680K	5%	1/16W	R2010	1-218-951-11	RES-CHIP	680	5%	1/16W
R1616	1-218-977-11	RES-CHIP	100K	5%	1/16W						
R1617	1-218-960-11	RES-CHIP	3.9K	5%	1/16W	R2012	1-218-977-11	RES-CHIP	100K	5%	1/16W
R1620	1-218-985-11	RES-CHIP	470K	5%	1/16W	R2013	1-218-947-11	RES-CHIP	330	5%	1/16W
						R2014	1-218-977-11	RES-CHIP	100K	5%	1/16W
R1621	1-208-935-11	METAL CHIP	100K	0.5%	1/16W	R2015	1-218-977-11	RES-CHIP	100K	5%	1/16W
R1623	1-208-920-81	METAL CHIP	24K	0.5%	1/16W	R2016	1-218-977-11	RES-CHIP	100K	5%	1/16W
R1624	1-208-933-11	METAL CHIP	82K	0.5%	1/16W						
R1626	1-208-912-11	METAL CHIP	11K	0.5%	1/16W	R2057	1-218-947-11	RES-CHIP	330	5%	1/16W
R1627	1-208-934-11	METAL CHIP	91K	0.5%	1/16W	R2093	1-218-977-11	RES-CHIP	100K	5%	1/16W
						R2094	1-218-977-11	RES-CHIP	100K	5%	1/16W
R1628	1-208-922-11	METAL CHIP	30K	0.5%	1/16W	R2095	1-218-985-11	RES-CHIP	470K	5%	1/16W
R1629	1-208-683-11	METAL CHIP	1K	0.5%	1/16W	R2208	1-218-977-11	RES-CHIP	100K	5%	1/16W
R1632	1-208-683-11	METAL CHIP	1K	0.5%	1/16W						
R1634	1-218-977-11	RES-CHIP	100K	5%	1/16W	R2211	1-218-947-11	RES-CHIP	330	5%	1/16W
R1635	1-208-711-11	METAL CHIP	15K	0.5%	1/16W	R2214	1-218-965-11	RES-CHIP	10K	5%	1/16W
						R2215	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1636	1-218-970-11	RES-CHIP	27K	5%	1/16W	R2219	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1637	1-208-668-11	METAL CHIP	240	0.5%	1/16W	R2220	1-218-947-11	RES-CHIP	330	5%	1/16W
R1640	1-218-947-11	RES-CHIP	330	5%	1/16W						
R1641	1-218-949-11	RES-CHIP	470	5%	1/16W	R2228	1-218-941-81	RES-CHIP	100	5%	1/16W
R1642	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R2229	1-218-941-81	RES-CHIP	100	5%	1/16W
						R2238	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1644	1-208-922-11	METAL CHIP	30K	0.5%	1/16W	R2239	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1645	1-208-711-11	METAL CHIP	15K	0.5%	1/16W	R2246	1-218-941-81	RES-CHIP	100	5%	1/16W
R1646	1-208-683-11	METAL CHIP	1K	0.5%	1/16W						
R1647	1-218-989-11	RES-CHIP	1M	5%	1/16W	R2250	1-218-947-11	RES-CHIP	330	5%	1/16W
R1648	1-218-977-11	RES-CHIP	100K	5%	1/16W	R2264	1-218-977-11	RES-CHIP	100K	5%	1/16W
						R2267	1-218-977-11	RES-CHIP	100K	5%	1/16W
R1649	1-218-953-11	RES-CHIP	1K	5%	1/16W	R2268	1-218-977-11	RES-CHIP	100K	5%	1/16W
R1653	1-218-953-11	RES-CHIP	1K	5%	1/16W	R3005	1-218-990-81	SHORT CHIP	0		
R1656	1-218-949-11	RES-CHIP	470	5%	1/16W						
R1660	1-245-115-91	METAL CHIP	100K	0.1%	1/10W	R3006	1-218-990-81	SHORT CHIP	0		
R1661	1-245-115-91	METAL CHIP	100K	0.1%	1/10W	R3008	1-218-990-81	SHORT CHIP	0		
						R3009	1-218-990-81	SHORT CHIP	0		
R1663	1-208-911-11	METAL CHIP	10K	0.5%	1/16W	R3011	1-216-864-11	SHORT CHIP	0		
R1664	1-218-987-11	RES-CHIP	680K	5%	1/16W	R4001	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1676	1-208-911-11	METAL CHIP	10K	0.5%	1/16W						
R1680	1-218-965-11	RES-CHIP	10K	5%	1/16W	R4006	1-218-990-81	SHORT CHIP	0		
R1681	1-218-977-11	RES-CHIP	100K	5%	1/16W	R4007	1-218-990-81	SHORT CHIP	0		
						R4008	1-218-990-81	SHORT CHIP	0		
R1682	1-218-965-11	RES-CHIP	10K	5%	1/16W	R4009	1-218-990-81	SHORT CHIP	0		
R1683	1-208-911-11	METAL CHIP	10K	0.5%	1/16W	R4010	1-218-990-81	SHORT CHIP	0		
R1684	1-218-965-11	RES-CHIP	10K	5%	1/16W						
R1685	1-218-977-11	RES-CHIP	100K	5%	1/16W	R4011	1-218-990-81	SHORT CHIP	0		
R1686	1-208-929-81	METAL CHIP	56K	0.5%	1/16W	R4012	1-218-990-81	SHORT CHIP	0		
						R4013	1-218-990-81	SHORT CHIP	0		
R1687	1-208-929-81	METAL CHIP	56K	0.5%	1/16W	< NETWORK RESISTOR >					
R1688	1-218-977-11	RES-CHIP	100K	5%	1/16W	RB201	1-234-372-11	RES, NETWORK	100 (1005X4)		
R1689	1-218-965-11	RES-CHIP	10K	5%	1/16W	RB601	1-234-372-11	RES, NETWORK	100 (1005X4)		
R1690	1-208-715-11	METAL CHIP	22K	0.5%	1/16W	RB801	1-234-379-21	RES, NETWORK	22K (1005X4)		
R1691	1-208-923-11	METAL CHIP	33K	0.5%	1/16W	RB802	1-234-379-21	RES, NETWORK	22K (1005X4)		
						RB803	1-234-372-11	RES, NETWORK	100 (1005X4)		
R1692	1-218-977-11	RES-CHIP	100K	5%	1/16W						
R1693	1-218-977-11	RES-CHIP	100K	5%	1/16W	RB804	1-234-372-11	RES, NETWORK	100 (1005X4)		
R1694	1-208-920-81	METAL CHIP	24K	0.5%	1/16W	RB805	1-234-372-11	RES, NETWORK	100 (1005X4)		
R1695	1-218-970-11	RES-CHIP	27K	5%	1/16W	RB901	1-234-387-21	RES, NETWORK	330 (1005X4)		
R1697	1-218-949-11	RES-CHIP	470	5%	1/16W	RB1601	1-234-374-21	RES, NETWORK	470 (1005X4)		
						RB1602	1-234-374-21	RES, NETWORK	470 (1005X4)		
R1698	1-218-953-11	RES-CHIP	1K	5%	1/16W						
R1699	1-218-941-81	RES-CHIP	100	5%	1/16W	RB1603	1-234-374-21	RES, NETWORK	470 (1005X4)		
R1703	1-218-941-81	RES-CHIP	100	5%	1/16W	RB1604	1-234-374-21	RES, NETWORK	470 (1005X4)		
R1704	1-805-726-11	THERMISTOR, POSITIVE				RB2001	1-234-381-21	RES, NETWORK	100K (1005X4)		
R1705	1-805-726-11	THERMISTOR, POSITIVE				RB2002	1-234-381-21	RES, NETWORK	100K (1005X4)		
						RB2003	1-234-381-21	RES, NETWORK	100K (1005X4)		
R1706	1-216-295-91	SHORT CHIP	0								
R1707	1-218-977-11	RES-CHIP	100K	5%	1/16W						
R1708	1-218-977-11	RES-CHIP	100K	5%	1/16W						

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MAIN

Ref. No.	Part No.	Description	Remark
RB2004	1-234-387-21	RES, NETWORK 330 (1005X4)	
RB2005	1-234-387-21	RES, NETWORK 330 (1005X4)	
RB2006	1-234-381-21	RES, NETWORK 100K (1005X4)	
RB2007	1-234-387-21	RES, NETWORK 330 (1005X4)	
RB2008	1-234-387-21	RES, NETWORK 330 (1005X4)	
RB2009	1-234-387-21	RES, NETWORK 330 (1005X4)	
RB2010	1-234-387-21	RES, NETWORK 330 (1005X4)	
RB2011	1-234-387-21	RES, NETWORK 330 (1005X4)	
RB2012	1-234-387-21	RES, NETWORK 330 (1005X4)	
RB2013	1-234-381-21	RES, NETWORK 100K (1005X4)	
< VARIABLE RESISTOR >			
RV1601	1-225-895-21	3TYPE RES, ADJ, CERMET 1K	
< SWITCH >			
S801	1-786-515-21	SWITCH, TACTILE (RESET)	
S802	1-786-924-11	SWITCH, DETECTION (POWER)	
S803	1-786-814-11	SWITCH, TACTIL (ENT/◀/▶/▶)	
S873	1-786-293-21	SWITCH, TACTILE (VOL/+)	
S874	1-786-293-21	SWITCH, TACTILE (VOL/-)	
< TRANSFORMER >			
T901	1-781-667-22	COIL, COMMON MODE CHOKE	
< THERMISTOR (POSITIVE) >			
THP401	1-804-949-11	THERMISTOR, NTC (SMD)	
< VIBRATOR >			
X102	1-813-180-21	VIBRATOR, CERAMIC(11.2896MHz)	
X601	1-813-178-21	VIBRATOR, CERAMIC(30MHz)	
X801	1-795-029-11	VIBRATOR, CRYSTAL(32.768kHz)	
X802	1-813-181-21	VIBRATOR, CERAMIC(4.9152MHz)	
X1002	1-795-029-11	VIBRATOR, CRYSTAL(32.768kHz)	
X1601	1-813-179-21	VIBRATOR, CERAMIC(33MHz)	

MISCELLANEOUS			

1-870-175-11 MS FLEXIBLE BOARD			

ACCESSORIES			

⚠	1-479-714-11	ADAPTOR, AC (AC-S5220E)	
⚠	1-829-810-61	CORD, POWER	
	1-829-882-31	CORD, CONNECTION (USB)	
	2-674-363-01	QUICK START GUIDE	
	2-674-575-01	SOFT, APPLICATION	

MEMO

REVISION HISTORY

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